

The World's Industrial and Cotton Centennial Exposition,
NEW ORLEANS, LA., 1884-85.

No. 8.

LIST OF CRANIA AND SKELETONS

IN THE

SECTION OF COMPARATIVE ANATOMY

OF THE

UNITED STATES ARMY MEDICAL MUSEUM,

WASHINGTON, D. C.

REVISED AT THE MUSEUM FOR USE DURING THE EXPOSITION.

SURGEON JOHN S. BILLINGS, U. S. A.,

Curator of Army Medical Museum.

HENRY McELDERRY,

Assistant Surgeon, U. S. A.,

IN CHARGE OF THE REPRESENTATION OF THE MEDICAL DEPARTMENT, U. S. A.

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SECTION OF COMPARATIVE ANATOMY

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LIST OF CRANIA AND SKELETONS

IN THE

SECTION OF COMPARATIVE ANATOMY,

IN THE

Army Medical Museum, at Washington, D. C.

This list of the skeletons and crania, contained in the Section of Comparative Anatomy of the United States Army Medical Museum, is printed for the purpose of indicating the deficiencies of the collection and the contributions to it which would be most desirable. It is proposed to enlarge this section of the collection in such a way as to make it most useful for illustrating human anatomy, both pathological and physiological; and to this end it is proposed to form, in addition to complete skeletons, sets or series of the different bones and organs, to illustrate the development and peculiarities of similar bones and organs in man. For this purpose it is desired to obtain specimens of pelvis; of the upper extremity, including the bones of the shoulder girdle; of the lower extremity; of the carpus and tarsus, etc., to illustrate the principal types of these bones in the vertebrata.

The appropriations for the support of the Museum are too limited to permit of the expenditure of any considerable sums on the collection of comparative anatomy. The specimens enumerated in the following list were, for the most part, collected by medical and other officers of the army on

duty at frontier posts. For the present, substantial increase of the collections can only be expected from donations, which will be thankfully received from any quarter.

Skeletons of the following North American animals are much desired for this section of the Museum: Wild Cat (*Lynx rufus*); Canada Lynx (*Lynx canadensis*); Eyra, (*Felis eyra*,) Texas; Yaguarundi, (*Felis yaguarundi*,) Texas; Panther (*Felis concolor*); Jaguar, (*Felis onca*,) Texas; Ocelot (*Felis pardalis*); Fisher (*Mustela pennanti*); Wolverine (*Gulo luscus*); Badger (*Taxidea americana*); White-backed Skunk, (*Conepatus mapurito*,) Texas; Little striped Skunk, (*Spilogale zorilla*,) Pacific slope; Otter (*Lutra canadensis*); Sea Otter (*Enhydra marina*); Grizzly Bear (*Ursus arctos*); Black Bear (*Ursus americanus*); Peccary (*Dicotyles torquatus*); Mountain Goat (*Mazama montana*); Antelope (*Antilocapra americana*); Armadillo, (*Tatusia peba*,) Texas, especially foetuses; Snowy Owl (*Nyctea nivea*); Hawk Owl (*Surnia ulula*); Burrowing Owl (*Spheotyto cunicularia*); Marsh Harrier (*Circus cyaneus*); Mississippi Kite (*Ictinia mississippiensis*); Swallow-tailed Kite (*Nauclerus furcatus*); Duck Hawk (*Falco peregrinus*); Fish Hawk (*Pandion haliaetus*); Wood Ibis (*Tantalus loculator*); Cormorant (*Graculus carbo*); Courlan (*Aramus scolopaceus*); White Pelican (*Pelicanus trachyrhynchus*); Gannet (*Sula bassana*), and others.

In skeletons intended for the Museum no attempt should be made at cleaning; and especially they should not be boiled. If the animal is obtained in a fresh state, the flesh should be roughly cut off and the skeleton hung up in the shade to dry. Care should be taken that none of the small bones are lost, especially the hyoid bones. In taking out the viscera the costal cartilages should be left attached to ribs and sternum; but if it is found necessary in the case of large animals to disarticulate the ribs, the costal cartilages should always be left attached to the sternum. In animals as large or larger than the Prairie Wolf the skull and limbs may be

severed from the body, and the vertebral column divided in the lumbar region, for convenience in packing. In animals smaller than this the limbs, skull, etc., should be left attached. The limbs and tail can be neatly folded while the ligaments are soft and flexible. In the case of animals that have died and decomposed upon the plain, care should be exercised in getting all the bones. Skeletons should be packed in a tight box, with plenty of hay or straw to prevent breakage of the delicate processes. Small animals are best preserved in alcohol, in which case an incision should be made along the middle line of the abdomen to give the alcohol access to the viscera.

JOHN S. BILLINGS,
Surgeon U. S. Army,
Curator Army Medical Museum.

LIST OF CRANIA AND SKELETONS OF MAMMALS.

Note.—In the preparation of this list the classification adopted is nearly the same as that of Dr. Theo. Gill in his paper entitled “*Arrangement of the Families of Mammals*,” Smithsonian Miscellaneous Collections, No. 230, 1872, and the nomenclature of the species is in accordance, for the most part, with the more recent views of prominent Mammalogists.

CLASS **MAMMALIA.**

SUB-CLASS **Eutheria.**

SECTION **MONODELPHIA.**

ORDER **Primates.**

SUB-ORDER **ANTHROPOIDEA.**

Family **SIMIIDE.**

Cran.	Skel.	
2507		Troglodytes savagii, Gray (Cast). ♂ <i>Gorilla.</i>
2508		Troglodytes savagii, Gray (Cast). ♀ <i>Gorilla.</i>
	1407	Simia satyrus, Linn. <i>Orang Outang.</i>
	2526	Hylobates lar, Linn. <i>Common Gibbon.</i>
		Family CYNOPITHECIDÆ.
		Sub-Family <i>Colobinæ.</i>
2482	2481	Semnopithecus cuculatus. <i>Langur.</i>
	1066	Cercopithecus fuliginosus, Cuvier. <i>Moor Ape Monkey.</i>
	1299	Cercopithecus pygerythus, Cuvier. <i>Vervet.</i>
	1300	Macacus senicus (Desm.), Gray. <i>Capped Macaque.</i>
1382		Macacus cynomolgus, Desm. <i>The Kra.</i>
	2483	Cynopithecus niger. <i>Black Macaque.</i>
	1297	Cynocephalus procarius, Desm. <i>Chacma.</i>
		Family CEBIDÆ.
	1298	Mycetes seniculus, Kuhl. <i>Golden Howler.</i>
	1296 2203	Ateles paniscus, Geoff. <i>Spider Monkey.</i>
	2418	Lagothrix humboldtii, Geoff St. Hilaire. <i>Humboldt's Monkey.</i>

Cran.	Skel.	
		Family MIDIDÆ.
	1302	Œdipus titi, Lesson. <i>Pinche</i> .
	2527	Midas rosalia.
845		Hapale jacchus. <i>Marmoset</i> .
		SUB-ORDER PROSIMIÆ.
		Family LEMURIDÆ.
		Sub-Family Lemurinae.
	2485	Vareca varia. <i>Ruffed Lemur</i> .
	2525	Nycticebus tardigradus. <i>Slow Lemur</i> .
		Sub-Family Lorisinae.
	2484	Loris gracilis. <i>Slender Loris</i> .
		Sub-Family Galaginae.
	2524	Galago otolincus.
		Family TARSIIDÆ.
	1301	Tarsius spectrum, Geoff. <i>Tarsius</i> .
		ORDER Carnivora.
		SUB-ORDER FISSIPEDIA.
		Family FELIDÆ: <i>Cats, etc.</i>
952 1059 1160		Lynx rufus (Guldenstädt), Raf. <i>Wild Cat</i> .
1080		Lynx rufus maculatus, Cs. and Yar. <i>Texas Wild Cat</i> .
1383 1396 180	793	Lynx rufus fasciatus, Cs. and Yar. <i>Red Cat</i> .
		Lynx canadensis (Geoff and Desm.), Raf. <i>Canada Lynx</i> .
178 179 828 954	631	Felis concolor, Linn. <i>Panther; Painter; Puma; Cougar; American or California Lion</i> .
1412		Felis onça, Linn. <i>Jaguar; Mexican Tiger</i> .
95 181 182 183	20	Felis domesticus, Linn. <i>Common Cat</i> .
	1307	Felis tigris, Cuv. <i>Bengal Tiger</i> .

Cran.

Skel.

Family VIVERRIDÆ.

2487 *Herpestes mangusta*. *Mongoose*.2529 *Gennetta vulgaris*. *Civet*.Family CANIDÆ: *Dogs, etc.*712 *Canis lupus occidentalis*, Cs. and Yar. *American Wolf*;
Timber or Buffalo Wolf; *Lobo of the Mexicans*.

184

185

713

714

1235

1417

1418

186

710

711

715

1323

1324

907 *Canis latrans*, Say. *Coyote*; *Prairie Wolf*.

1084

29

35

187

188

739

76 *Canis familiaris*, Linn. *Common Dog*.

189

190

191

192

99 *Vulpes vulgaris pennsylvanicus*, Cs. *Red Fox*.

1161

1196

Vulpes macrourus, Baird. *Prairie Fox*.

953

1314

Vulpes velox, Aud. and Bach. *Kit Fox*; *Swift Fox*.

1546

1571

Urocyon littoralis (Baird), Gill. *Island Fox*.

193

194

195

196

2523

Urocyon cinereo-argentatus (Schreber), Cs. *Gray Fox*.Family MUSTELIDÆ: *Martins, Weasels, etc.*Sub-Family *Mustelinæ*; Typical Weasels.

723

Mustela martes, Brisson. *Forest Mink*.

198

Mustela pennanti, Erxl. *Fisher*; *Black Cat*.

197

957

Mustela americana, Turton. *Pine Martin*; *American Sable*.

2088

852

Putorius longicauda, Rich. *Long-tailed Ermine*.

1424

Cran.	Skel.	
1058	722 1075	<i>Putorius erminea</i> (Linn.), Cuv. <i>White Weasel; Ermine.</i>
724		<i>Putorius fœtidus</i> , Linn. <i>European Illis.</i>
720		<i>Putorius vulgaris</i> Briss. <i>Field Weasel.</i>
732		<i>Putorius erminea</i> Linn. <i>Great Weasel.</i>
95		<i>Putorius vison</i> , Rich. <i>Brown Mink.</i>
1315		
1316		
200		<i>Gulo luscus</i> , Sabine. <i>Wolverine</i>
		Sub-Family <i>Melinae</i> : Badgers.
203	795	<i>Taxidea americana</i> (Bodd), Baird. <i>Missouri Badger.</i>
942		
834		
950		
1236		
1244		
1419		
736		<i>Meles taxus</i> , Schreber. <i>European Badger.</i>
825	161	
202	2185	<i>Mephitis mephitis</i> (Shaw), Baird. <i>American Skunk.</i>
704		
956		
1193		
2084		
		Sub-Family <i>Lutrinae</i> : Otters.
740		<i>Lutra vulgaris</i> Linn. <i>European Otter.</i>
201		<i>Lutra canadensis</i> (Turton), Cuv. <i>American Otter.</i>
951		
		Family <i>Ursidae</i> : Bears.
205	1042	<i>Ursus arctos horribilis</i> (Ord.), Cs. and Yar. <i>Grizzly Bear.</i>
672		
1006		
1043		
2240		
	2488	<i>Ursus arctos.</i> <i>European Brown Bear.</i>
206	1200	
207	1210	<i>Ursus americanus</i> , Pallus. <i>Black Bear.</i>
208	1243	
209	2463	
210		
1380		
1381		

Cran.	Skel.	
211		<i>Ursus maritimus</i> (Linn.). <i>White or Polar Bear.</i>
		Family PROCYONIDÆ: <i>Raccoons, etc.</i>
204	184	<i>Procyon lotor</i> (Linn.), Starr. <i>Common Raccoon.</i>
613	2078	
1060		
2677		
		SUB-ORDER PINNIPEDIA.
		Family OTARIIDÆ: <i>Eared Seals.</i>
	1057	<i>Callirhinus ursinus</i> (Schreber), Gray. <i>Fur Seal.</i>
1048		<i>Eumetopias stelleri</i> (Fischer), Gray. <i>Sea Lion.</i>
261		<i>Zalophus gilliespii</i> (MacBain), Gill. <i>Sea Dog.</i>
		Family PHOCIDÆ: <i>Hair Seals.</i>
		Sub-Family Phocinæ.
259		<i>Phoca vitulina</i> Linn. <i>Common Seal; Harbor Seal.</i>
1292		
258		<i>Erignathus barbatus</i> (O. Fabr.), Gill. <i>Square-Flipper Seal.</i>
		Sub-Family Cystophorinæ: <i>Crested Seals.</i>
260		<i>Cystophora cristata</i> (Erxl.), Nilsson. <i>Hooded Seal.</i>
		Family ROSMARIDÆ: <i>Walruses.</i>
888	1053	<i>Rosmarus obesus</i> (Illiger), Gill. <i>Atlantic Walrus.</i>
		ORDER Diplarthra.
		SUB-ORDER ARTIODACTYLI.
		Family BOVIDÆ: <i>Bovines.</i>
		Sub-Family Bovinæ: <i>Typical Bovines.</i>
832	686	<i>Bison americanus</i> (Gmelin), Gray. <i>American Buffalo.</i>
959		
50	802	<i>Bos taurus</i> (Linn.), Cuvier. <i>Cow.</i>
2221		
		Sub-Family Ovinæ: <i>Sheep.</i>
671	1061	<i>Ovis montana</i> , Cuvier. <i>Rocky Mountain Sheep; Bighorn.</i>
1049		
1422		
2259		
257		<i>Ovis aries</i> , Linn. <i>Common Sheep.</i>
619		
620		
		Sub-Family Caprinæ: <i>Goats, etc.</i>
254	106	<i>Capra hircus</i> . <i>Common Goat.</i>
255		
256		

Cran.	Skel.	
738		<i>Rupicapra tragus</i> , Linn. <i>Chamois</i> .
		Family ANTILOCAPRIDÆ: <i>American Antelopes</i> .
252		<i>Antilocapra americana</i> (Ord.). <i>Antelope</i> ; <i>Prong-horn Antelope</i> ; <i>Cabree</i> .
243		
632		
633		
1050		
		Family CAMELIDÆ.
	2491	<i>Llama pacos</i> . <i>Alpaca</i> .
		Family CERVIDÆ: <i>Deer</i> .
		Sub-Family Cervinæ: <i>Typical Deer</i> .
247	1069	<i>Cervus canadensis</i> , Erxl. <i>American Elk</i> ; <i>Wapiti</i> .
1022		
1077		
1525		
1537		
248	1545	<i>Cariacus macrotis</i> (Say), Gray. <i>Mule, or Black tailed Deer</i> .
1354	1589	
2241		<i>Cariacus macrotis</i> var. <i>coloradensis</i> (Rich.). <i>Columbia Black-tailed Deer</i> .
249	634	<i>Cariacus virginianus</i> (Bodd.) Gmel. <i>Virginia Deer</i> ; <i>Red Deer</i> .
250		
251		
622		
635		
833	1544	<i>Cariacus virginianus macrourus</i> (Raf.), Cs. <i>White-tailed Deer</i> .
1395		
		Family TRAGULIDÆ.
	2492	<i>Tragulus javanicus</i> . <i>Java Musk Deer, or Chevrotian</i> .
		Family PHACOCERIDÆ.
1309		<i>Phacochærus alicani</i> , Gretz. <i>Wart Hog</i> .
		Family DYCOTYLIDÆ: <i>Peccaries</i> .
244	829	<i>Dicotyles torquatus</i> , Cuvier. <i>Peccary</i> .
		Family SUIDÆ: <i>Swine</i> .
47	123	<i>Sus scrofa</i> , Linn. <i>Common Hog</i> .
52		
245		
246		
		SUB-ORDER PERISSODACTYLI.
		Family EQUIDÆ: <i>Horses, etc</i> .
34	801	<i>Equus caballus</i> , Linn. <i>Horse</i> .

Cran.	Skel.	
1408		<i>Equus asinus caballus</i> , Linn. <i>Mule</i> .
ORDER Sirenia .		
Family HALICORIDÆ.		
2490		<i>Halicore australis</i> . <i>Dugong</i> .
ORDER Cetacea .		
SUB-ORDER DENTICETE .		
Family DELPHINIDÆ: <i>Dolphins, etc.</i>		
Sub-Family <i>Delphininæ</i> : Typical Dolphin.		
262	1308	<i>Delphinus delphis</i> , Linn.
1148		<i>Delphinus chymene</i> , Gray. <i>Porpoise</i> .
1266		
1267		
	2489	<i>Delphinus tursio</i> .
1554		<i>Phocæna americana</i> , Agassiz. <i>Snuffler or Puffing Pig</i> .
SUPER-ORDER INEDUCABILIA .		
ORDER Chiroptera .		
SUB-ORDER ANIMALIVORA .		
Family NOCTILIONIDÆ: <i>Free-tailed Bats</i> .		
2381	601	<i>Nyctinomus nasutus</i> (Spix.), Tomes. <i>Snouty Bat</i> .
Family VESPERTILIONIDÆ: <i>Ordinary Bats</i> .		
986		<i>Corynorhinus macrotis</i> (Le Conte), Allen. <i>Big-eared Bat</i> .
981		<i>Antrozous pallidus</i> (Le Conte), Allen. <i>Pale Bat</i> .
2224		
2231		
2232	848	
1192	1009	<i>Atalpa (Nycticejus) crepuscularis</i> (Le Conte), Cs. <i>Twilight Bat</i> .
731		<i>Vesperugo noctula</i> , Blas. <i>Shining Bat</i> .
728		<i>Vesperugo pipistrellus</i> , Blas. <i>Common European Bat</i> .
729		<i>Vesperugo discolor</i> , Blas. <i>Parti-colored Bat</i> .
727		<i>Plecotus auritus</i> (Linn.), Geoff. <i>Long-eared Bat</i> .
1353	1198	<i>Atalapha (Lasiurus) noveboracensis</i> (Erxl.), Cs. <i>Red Bat; New York Bat</i> .

Cran.	Skel.	
992	113	<i>Vespertilio subulatus</i> , Say. <i>Little Brown Bat</i> .
996	600	
997		
1208		
1008	174	<i>Vespertilio (Vesperus) fuscus</i> , Beauv. <i>Carolina Brown Bat</i> .
	845	
1134	849	<i>Vespertilio (Vesperugo) georgianus</i> , F. Cuv. <i>Georgia Bat</i> .
ORDER INSECTIVORA.		
Family CESTIDÆ		
	2486	<i>Centetes ocaudatus</i> . <i>Tenrec</i> .
Family TALPIDÆ: <i>Moles</i> .		
Sub-Family <i>Talpinæ</i> : <i>Typical Moles</i> .		
734		<i>Talpa europæa</i> , Linn. <i>Black Mole</i> .
735		
	112	<i>Scalops aquaticus</i> (Linn.), Cuvier. <i>Common Mole</i> .
2155		<i>Scalops argentatus</i> , Aud. <i>Silvery Mole</i> .
	1106	<i>Condylura cristata</i> (Linn.), Illiger. <i>Star-nosed Mole</i> .
Family TAUPAIADÆ.		
	2521	<i>Taupaia minor</i> . <i>Squirrel Shrew</i> .
Family SORICIDÆ: <i>Shrews</i> .		
232		<i>Sorex personatus</i> , Geoff. <i>Masked Shrew</i> .
2166		<i>Sorex cooperi</i> , Bach. <i>Cooper's Shrew</i> .
2167		
2168		
2169		
2182		<i>Sorex pachyurus</i> , Baird. <i>Thick-tailed Shrew</i> .
2183		
2142	2141	<i>Blarina brevicauda</i> , Gray. <i>Short-tailed Shrew</i> .
2143		
Family ERINACEIDÆ: <i>Hedgehogs</i> .		
725		<i>Erinaceus europæus</i> , Linn. <i>Hedgehog</i> .
ORDER Rodentia.		
SUB-ORDER MYOMORPHA.		
Family ZAPODIDÆ: <i>Jumping Mice</i> .		
1926	2113	<i>Zapus hudsonius</i> (Zimm.), Cb. <i>Jumping Mouse</i> .
1707		
2136		
2137		

Cran.	Skel.	
Family MURIDÆ: <i>Mice</i> .		
Sub-Family <i>Murinæ</i> : Typical Mice.		
130 222 223 552	19	<i>Mus decumanus</i> , Pallas. <i>Common Rat</i> .
984 985		<i>Mus tectorum</i> , Savi. <i>White-bellied Rat</i> .
225 226 227	69 1191	<i>Mus musculus</i> , Linn. <i>Common House Mouse</i> .
224 983 2154 2157	2156	<i>Neotoma floridana</i> (Say), Ord. <i>Wood Rat</i> .
2111 967 968 969 970	1356	<i>Neotoma cinerea</i> (Ord.), Baird. <i>Rocky Mountain Rat</i> . <i>Sigmodon hispidus</i> (Say), Ord. <i>Cotton Rat</i> .
597 1328 1573 1708	1406	<i>Hesperomys</i> (<i>Vesperimys</i>) <i>leucopus</i> (Raf.). <i>White-footed Mouse</i> .
2138	2089 2135	<i>Hesperomys</i> (<i>Onychomys</i>) <i>leucogaster</i> (Mar.), Coues. <i>Missouri Mole Mouse</i> .
1574	2068 2069 2070 2071 2072 2073	<i>Ochetodon longicauda</i> (Baird), Cs. <i>Long-tailed Mouse</i> .
Sub-Family <i>Arvicolinæ</i> : Field Mice.		
608 1040 1404 1710 2086	1709 2037	<i>Arvicola</i> (<i>Myonomes</i>) <i>riparius</i> , Ord. <i>Field Mouse</i> .
726		<i>Arvicola amphibius</i> , Linn. <i>Water Rat</i> .
2223		<i>Arvicola</i> (<i>Myonomes</i>) <i>townsendi</i> , Bach. <i>Townsend's Meadow Mouse</i> .
2133 2134 2151 2152	2150	<i>Arvicola</i> (<i>Podomys</i>) <i>austerus</i> , Lee. <i>Prairie Meadow Mouse</i> .

Cran.	Skel.	
22	2066	<i>Fiber zibethicus</i> (Linn.), Cuvier. <i>Musk Rat</i> .
220		
230		
1194		
1317		
1421		
		Family SACCOMYIDÆ: <i>Pouched Mice</i> .
		Sub-Family <i>Dipodomys</i> .
	681	<i>Dipodomys phillipsi</i> (Woodh.), Cs. <i>Kangaroo Rat</i> .
	1137	
	1569	
996		<i>Cricetodipus flavus</i> , Baird. <i>Western Mouse</i> .
1705		<i>Perognathus hispidus</i> , Baird.
1706		
		Family GEOMYIDÆ: <i>Gophers</i> .
719	1703	<i>Geomys bursarius</i> , Shaw. <i>Pouched Gopher</i> .
827	1895	
1237	2062	
2064	2063	
2065		
	1310	<i>Thomomys talpoides</i> (Rich.), Baird. <i>Fort Union Gopher</i> .
	1704	
1001	1572	<i>Thomomys talpoides umbrinus</i> (Rich.), Cs. <i>Black-faced Gopher</i> .
1002		
1551		
2474		
		SUB-ORDER SCIUROMORPHA.
		Family CASTORIDÆ: <i>Beavers</i> .
220	1081	<i>Castor canadensis</i> , Kuhl. <i>American Beaver</i> .
221	1082	
794	1901	
822		
		Family SCIURIDÆ: <i>Squirrels, etc.</i>
		Sub-Family <i>Sciurinae</i> : <i>Typical Squirrels</i> .
975	1357	<i>Sciurus aberti</i> , Woodh. <i>Tuft-eared Squirrel</i> .
216	1355	<i>Sciurus hudsonius</i> , Pallas. <i>Red Squirrel</i> .
	2059	
	2278	<i>Sciurus hudsonius</i> var <i>fremonti</i> (Pallas), Allen. <i>Fremont's Squirrel</i> .
1550		<i>Sciurus hudsonius</i> var <i>douglasi</i> (Bach.), Allen. <i>Oregon Red Squirrel</i> .
214		<i>Sciurus cinereus</i> , Linn. <i>Pea or Cat Squirrel of Middle States</i> .
215		

Cran-	Skel.	
623		<i>Sciurus niger</i> var. <i>cinereus</i> (Linn.), Allen. <i>Southern Fox Squirrel.</i>
624		
	2208	<i>Sciurus niger</i> var. <i>ludovicianus</i> (Cret), Allen. <i>Western Fox Squirrel.</i>
	10	<i>Sciurus carolinensis</i> , Gmelin. <i>Gray Squirrel.</i>
	175	<i>Sciuropterus volucella</i> var. <i>volucella</i> (Desm.), Allen. <i>Flying Squirrel.</i>
896		<i>Sciuropterus volucella</i> var. <i>hudsonius</i> (Bach.), Allen. <i>Oregon Flying Squirrel.</i>
506	561	<i>Tamias striatus</i> (Linn.). <i>Chipmunk.</i>
	2061	
2139 *		
1361	1362	<i>Tamias quadrivittatus</i> (Say), Rich. <i>Four-striped Squirrel.</i>
1667		
1687		
2234		<i>Tamias harrisi</i> (Aud. and Bach.), Allen. <i>Harris' Chipmunk.</i>
1549	1363	<i>Tamias lateralis</i> (Say), Allen. <i>Rocky Mountain Chipmunk.</i>
974		<i>Spermophilus grammurus</i> (Say), Bach. <i>Line-tail Squirrel.</i>
1398		
1312	1311	<i>Spermophilus tridecem-lineatus</i> (Mitch.), Aud. and Bach.
1313	2060	<i>Striped Prairie Squirrel.</i>
1686		
1433		<i>Spermophilus richardsoni</i> (Sabine), Bd. <i>Richardson's Gopher.</i>
2126		<i>Spermophilus richardsoni</i> var. <i>townsendi</i> (Sab.), Allen. <i>Townsend's Spermophile.</i>
2145	2146	<i>Spermophilus franklini</i> (Sab.), Lesson. <i>Franklin's Spermophile; Gray-headed Spermophile.</i>
2147		
2138		
2149		
2160	2159	<i>Spermophilus mexicanus</i> (Licht), Wagner. <i>Mexican Spermophile.</i>
2161		
2162		
2163		
1548	1570	<i>Spermophilus beecheyi</i> (Rich.), Allen. <i>California Ground Squirrel.</i>
1547		
217	905	<i>Cynomys ludovicianus</i> (Ord.), Bd. <i>Prairie Dog.</i>
218	1409	
835	1410	
903		
904		
2158	1352	<i>Cynomys columbianus</i> (Ord.), Allen. <i>Short-tailed Prairie Dog.</i>

Cr. Skel.

Sub-Family *Arctomyinae*: Woodchucks.

219 1205 *Arctomys monax*, Linn. *Woodchuck*.

1358 *Arctomys flaviventer*, Aud. and Bach. *Yellow-bellied Marmot*.

SUB-ORDER **HYSTRICOMORPHA**.

Family *HYSTRICIDÆ*: *Porcupines*.

978 *Erethizon dorsatus*, Cuvier. *Porcupine*.

251 2320 *Erethizon epixanthus*, Brandt. *Yellow-haired Porcupine*.

869 1918 Family *CAVIIDÆ*: *Cavies, etc.*

870 *Cavia cabaya*, Linn. *Guinea Pig*.

908

909

SUB-ORDER **LAGOMORPHA**.

Family *LEPORIDÆ*: *Hares*.

239 *Lepus americanus*, Erxl. *Great Northern Hare*.

237 1756 *Lepus callotis*, Wagler. *Jackass Rabbit*.

797 1896

1238

1360

1405

2390 *Lepus campestris*, Bach. *Northern Prairie Hare*.

240 164 *Lepus sylvaticus*, Bach. *Eastern Gray Rabbit*.

241

242

243

2235 *Lepus sylvaticus* aud. (Baird), Allen. *Audabon Rabbit*.

972 *Lepus sylvaticus* nuttali (Bach.), Allen. *Sage Rabbit*.

987

988

989

1239

1240

1384

1669

1670

2094 *Lepus trowbridgii*, Baird. *Trowbridge's Hare*.

238 *Lepus palustris*, Bach. *Marsh Rabbit*.

Family *LEPORIDÆ*: *Rabbits, Hares, etc.*

737 *Lepus timidus*, Linn. *European Hare*.

Cran.	Skel.	
234 235 237 1023	48	<i>Lepus cuniculus</i> , Linn. <i>English Rabbit</i> .
	818	<i>Lepus madagascarensis</i> , Linn. <i>Long-eared Rabbit</i> .
ORDER Bruta.		
SUB-ORDER TARDIGRADA.		
Family BRADYPODIDÆ.		
1303		<i>Cholœpus hoffmanii</i> , Gray. <i>Two-toed Sloth</i> .
SUB-ORDER ENTOMOPHOGA.		
Family MYRMECOPHAGIDÆ.		
2493		<i>Cyclothurus didactylus</i> . <i>Silky or Two-toed Ant Eater</i> .
Family DASYPODIDÆ.		
2127	2075	<i>Tatusia septum-cinctus</i> , Linn. <i>Rio Grande Armadillo</i> .
SECTION Didelphia.		
ORDER Marsupialia.		
SUB-ORDER DIPROTODONTIA.		
Family PHASCOLOMYIDÆ.		
2495		<i>Phascalomys ursinus</i> . <i>Wombat</i> .
Family PHALANGISTIDÆ.		
Sub-Family <i>Phascolarctinæ</i> .		
2500		<i>Phascolarctus cinerus</i> . <i>Native Bear</i> .
Sub-Family <i>Phalangistinæ</i> .		
1306 2497		<i>Phalangista vulpina</i> , Desm. <i>Australian Opossum</i> .
Family MACROPODIDÆ.		
2501		<i>Halmatus thetidis</i> .
SUB-ORDER POLYPROTODONTIA.		
Family DASYURIDÆ.		
2494		<i>Dasyurus viverrinus</i> . <i>Viverrine Dasyure, Native Cat</i> .
Family DIDELPHIDÆ: <i>Opossums</i> .		
212 213 787 945	1 162 163	<i>Didelphys virginianus</i> , Shaw. <i>Common Opossum</i> .
2074		<i>Didelphys californica</i> , Ben. <i>Black Opossum</i> .

Cran.	Skel.
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SUB-CLASS **Prototheria.**

ORDER **Monotremata.**

FAMILY ECHIDNIDÆ.

1305	Echidna aculeata, Gray. <i>Porcupine Ant Eater.</i>
2496	

FAMILY ORNITHORHYNCHIDÆ.

1304	Ornithorhynchus anatinus, Shaw. <i>Duck-bill Platypus.</i>
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MONSTROSITIES AND MISCELLANEOUS SPECIMENS OF AND FROM MAMMALS.

ORDER Primates.

- No.
644 Cast of the head of a gorilla (*Troglodytes gorilla*).
1067 Entozoa found in mesenteric folds of a monkey.

ORDER Carnivora.

Family FELIDÆ.

- 580 A young cat (*Felis domesticus*) with two faces.
683 A young cat (*Felis domesticus*) with two faces.
1176 A young cat (*Felis domesticus*) with two bodies, eight legs, and one head.
1259 A young cat (*Felis domesticus*) with cranium slightly larger than a pistol ball, without face, and with a very minute rudimentary inferior maxilla.
1260 A young cat (*Felis domesticus*) with deformed cranium, the nasal bone forming a proboscis one inch long; a single orbit beneath the nose; the superior maxilla rudimentary; the inferior curving upwards in anterior third.
1261 A young cat (*Felis domesticus*) with double face. In front and between the faces is a single orbit sufficiently large for two eyes; two mouths forming one cavity; inferior maxilla on anterior aspect is about one inch square.
1321 A young cat (*Felis domesticus*) with double face.
1368 A young cat (*Felis domesticus*) with two bodies.
2170 A young cat (*Felis domesticus*) with two perfect bodies, one cranium, four ears, and three eyes; one eye between occipital bone.
2184 A young cat (*Felis domesticus*) with two perfect bodies and normal cranium.
22 Oviduct with three embryos of a cat (*Felis domesticus*).
1270 Three embryos from a cat (*Felis domesticus*).
1177 Organs of respiration and liver of a cat (*Felis domesticus*).
1062 Tænia from intestines of a Canada lynx (*Lynx canadensis*).
1591 Entozoa found in intestines of a cat (*Felis domesticus*).

Family CANIDÆ.

- 1258 A young dog (*Canis familiaris*) with five legs. The right os innominatum has two acetabuli and two legs; the additional leg has two feet.
2067 A young dog (*Canis familiaris*), with three ossa innominata and five legs.
2153 A young dog (*Canis familiaris*), without superior or inferior maxilla, the nasal bones forming a long proboscis.
2466 Acephalus puppy (*Canis familiaris*).
30 Os penis of a dog (*Canis familiaris*).
100 Os penis of a red fox (*Vulpes vulgaris pennsylvanicus*).
767 Cervical vertebræ of a dog (*Canis familiaris*).
1083 Os hyoides of a prairie wolf (*Canis latrans*).

- No.
 1366 Os penis of a kit or swift fox (*Vulpes velox*).
 72 Uterus and appendages of a dog (*Canis familiaris*).
 1024 *Strongylus gigas* from the kidney of a dog (*Canis familiaris*).
 2470 Fore legs of a large Irish spaniel water-dog. Right fore leg fractured and united.
 2057 Lumbricoid (?) from the liver of a dog (*Canis familiaris*).

Family MUSTITIDÆ.

- 1041 Oleriferous glands of American skunk (*Mustela erpethicus*).
 1423 Os penis of Missouri badger (*Taxidea americana*).

Family PROCYONIDÆ.

- 625 Os penis of a raccoon (*Procyon lotor*).
 1065 Os penis of a raccoon (*Procyon lotor*).

Family URSIDÆ.

- 176 Hand of a grizzly bear (*Ursus arctos horribilis*).
 177 Foot of a grizzly bear (*Ursus arctos horribilis*).
 1007 Ligamentous pelvis of a grizzly bear (*Ursus arctos horribilis*).

Family ROSMARIDÆ.

- 948 Os penis of Atlantic walrus (*Rosmarus obesus*).

Family OTARIDÆ.

- 1045 Embryo in uterus of sea lion (*Eumetopias stelleri*), Alaska.
 1046 Embryo of sea lion (*Eumetopias stelleri*), Alaska.
 1047 Embryo of sea lion (*Eumetopias stelleri*), Alaska.
 1056 Os hyoides of fur seal (*Callorhinus ursinus*), Alaska.

ORDER Ungulata.

Family BOVIDÆ.

- 1712 A young cow (The Wood), born at York. The spinous processes of the second, third and fourth dorsal vertebrae are firmly united and form a single plate, at the upper part of which united by a strong intraspinal ligament, is an additional pelvis, of which the lower innominatum is absent and the other only rudimentary, consisting in two small spinous processes. This pelvis has two additional legs, one hind leg, thirty-two inches long, with two feet branching on the right, and one fore leg, twenty-two inches long, branching on the left side of the thorax. The articulations of the additional legs are ankylosed.
 2464 Two-headed fetal calf.
 2393 Crania of a double-headed calf (*Bos taurus*).
 2448 Double head of calf (*Bos taurus*).
 1254 Leg of a sheep (*Ovis aries*) with three feet.
 2222 Embryo of one month of a cow (*Bos taurus*).
 581 Embryo of sheep (*Ovis aries*).
 159 Costa bifida of American buffalo (*Bos americanus*).
 160 Costa furcata of American buffalo (*Bos americanus*).
 670 Molar teeth of an ox (*Bos taurus*).
 1195 Os hyoides of American buffalo (*Bos americanus*).

No.	
776	Hoofs of a cow (<i>Bos taurus</i>).
816	Bronchial glands and pleura of a cow (<i>Bos taurus</i>).
128	Encephalon of a sheep (<i>Ovis aries</i>).
638	Hair ball from the stomach of a cow (<i>Bos taurus</i>).
639	Do. do. an ox do.
650	Do. do. a cow do.
651	Do. do. do. do.
697	Do. do. a steer do.
698	Do. do. do. do.
699	Do. do. do. do.
1068	Do. do. an ox do.
804	Biliary calculus of a cow do.
1217	Do. do. do.
1245	Do. an ox do.
1263	Do. a cow do.
1290	Do. a calf do.
1364	Do. a Texas steer do.
1526	Do. a calf do.
1557	Do. a cow do.
1722	Do. a heifer do.
1737	Hair ball from the stomach of a cow (<i>Bos taurus</i>).
1996	Hair ball from the stomach of an ox (<i>Bos taurus</i>).
2205	Hair ball from the stomach of a cow (<i>Bos taurus</i>).
2515	

Family CERVIDÆ.

685	Embryo of a red deer (<i>Cariacus virginianus</i>).
721	Embryo of an American elk (<i>Cervus canadensis</i>).
676	Calvarium of an American elk (<i>Cervus canadensis</i>).
1181	Hairball from the stomach of an American elk (<i>Cervus canadensis</i>).
2237	Ball of matter rejected from the stomach of a white-tailed deer (<i>Cariacus virginianus macrourus</i>).

Family ANTILOCAPRIDÆ.

680	A young hemicephalous antelope (<i>Antilocapra americana, dacota</i>) with two perfect faces.
1257	Fœtal cranium of antelope (<i>Antilocapra americana</i>). The superior maxilla is so greatly depressed anteriorly that the alveolar borders meet underneath, and have formed thereby a deep fossa instead of a palatine plate: no tongue: the inferior maxilla is extremely rudimentary and small.
1721	Embryo of antelope (<i>Antilocapra americana</i>).
910	Calvarium of an antelope (<i>Antilocapra americana</i>), exhibiting shedding of horns.

Family CAMELIDÆ.

805	Calculus from the stomach of a camel (<i>Camelus dromedarius</i>), having a pebble as nucleus.
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Family SUIDÆ

579	A pig (<i>Sus scrofa</i>) with two faces.
791	Incomplete double-headed pig (<i>Sus scrofa</i> .)

- No.
- 853 A pig (*Sus scrofa*) with seven legs and eight feet; there are two perfect front legs, four hind legs, and a seventh leg stands upward between the two thoraces; the head is bifurcated at the os frontis, as if the animal had two mouths.
- 856 A pig (*Sus scrofa*) with two heads, the left being only partially developed.
- 1178 A pig (*Sus scrofa*) with two bodies, eight legs, and one head.
- 1189 Foot of a pig (*Sus scrofa*) with seven toes.
- 1218 Four malformed feet of a pig (*Sus scrofa*): the front feet are clubbed, with the hind toes abducted externally; the hind feet are well developed, the front toes being joined together, forming a single hoof.
- 1253 A pig (*Sus scrofa*) with eight legs, four sets of ribs, and two thorax. The two thoraces form but one cavity. One cranium, but no inferior maxillary.
- 1256 A pig (*Sus scrofa*) with malformed head, the cranium having a very small cavity for cerebellum; no facial bones; the inferior maxilla not developed.
- 1275 A pig (*Sus scrofa*) with round cranium; the proboscis is long and curved upward and backward, resting on top of the head; no orbits; no zygomatic arches, the inferior maxilla being a bridge from side to side.
- 1320 Malformed cranium of a pig (*Sus scrofa*).
- 2081 Hoof of "mule-footed pig" (*Sus scrofa*).
- 2204 Three feet of a pig (*Sus scrofa*), one with five and two with six toes.
- 1255 Skeleton of malformed pig.
- 2385 Malformed crania of a pig (*Sus scrofa*).
- 2468 Leg of a pig with three feet.
- 2472 Cranium of a deformed pig (*Sus scrofa*).
- 2473 Fore leg of a pig with two feet.
- 792 Maxillæ of a hog (*Sus scrofa*), showing milk dentition.
- 889 Right front foot of a pig (*Sus scrofa*); ligamentous.
- 890 Left hind foot of a hog (*Sus scrofa*); ligamentous.
- 906 Cranial vertebræ of a hog (*Sus scrofa*).
- 841 Generative organs of a hog (*Sus scrofa*).
- 1219 Encephalon of a pig (*Sus scrofa*).

Family EQUIDÆ.

- 2510 Head of a deformed foetal calf.
- 2511 Eye of same.
- 2462 Fetus of about three months' growth delivered of a mare.
- 2467 Fetus of a horse.
- 687 Ossicula auditus of a horse (*Equus caballus*).
- 688 Supernumerary bones of carpal articulation of a horse (*Equus caballus*).
- 692 Ventral portion of pharynx of a horse (*Equus caballus*). Ligamentous preparation.
- 744 Anterior parts of maxillæ of a horse (*Equus caballus*), showing incisor teeth at four years.
- 745 Anterior parts of maxillæ of a horse (*Equus caballus*), showing incisors at six years.
- 746 Anterior parts of maxillæ of a horse (*Equus caballus*), showing incisor teeth at eight years.
- 747 Anterior parts of maxillæ of a horse (*Equus caballus*), showing incisor teeth at nine years.
- 748 Anterior parts of maxillæ of a horse (*Equus caballus*), showing incisor teeth at ten years.

- No.
 749 Same at eleven years.
 750 Same at twelve years.
 751 Same at sixteen years.
 752 Same at eighteen years.
 753 Same at twenty years.
 754 Left carpal articulation of a horse (*Equus caballus*): ligamentous.
 755 Anterior phalanges of a mule (*Equus asinus caballus*) with lateral and true cartilages of the heel.
 756 Anterior phalanges of a horse (*Equus caballus*); ligamentous.
 757 Same.
 758 Anterior phalanges of a horse (*Equus caballus*) articulated with rubber.
 759 Posterior phalanges of a horse (*Equus caballus*) articulated with rubber.
 760 Anterior phalanges of a horse (*Equus caballus*); ligamentous.
 761 Posterior do. do. do.
 762 Do. do. do. do.
 769 Vertical section of os temporum of a horse (*Equus caballus*).
 770 Right and left os temporum of a horse (*Equus caballus*).
 777 Left tarsus and metatarsus of a horse (*Equus caballus*): ligamentous.
 780 Ligamentous preparation of right carpus and metacarpus of a horse (*Equus caballus*).
 781 Ligamentous preparation of left tarsus of a horse (*Equus caballus*).
 782 Ligamentous preparation of left carpal articulation of a horse (*Equus caballus*).
 786 Anterior parts of maxilla of a horse (*Equus caballus*), showing alveolæ for incisor teeth.
 798 Articulated right posterior foot of a horse (*Equus caballus*).
 799 Articulated right anterior foot of a horse (*Equus caballus*).
 813 Left anterior extremity of a horse (*Equus caballus*) articulated with rubber.
 814 Left posterior extremity of a horse (*Equus caballus*) articulated with rubber.
 2475 Portion of the foot of a fossil horse (*Equus occidentalis*).
 689 Arteries, veins, flexor, and extensor tendons inserted into the cartilaginous hoof of a horse (*Equus caballus*) after removal of all the bones.
 690 Cartilaginous hoof of a horse (*Equus caballus*).
 691 Two feet of a horse (*Equus caballus*), exhibiting the laminated (sensitive) folds in healthy condition.
 693 Right carpus of a horse (*Equus caballus*), exhibiting tendons, arteries, veins, and ligaments.
 694 Foot of a horse (*Equus caballus*), skin removed.
 695 Vertical section of a front and of a hind foot of a horse (*Equus caballus*).
 696 Two feet of a horse (*Equus caballus*) prepared to exhibit the laminated (sensitive) folds, coronary border, and glandular system in healthy condition.
 763 Internal or laminated structure of the nail or horny hoof of a horse (*Equus caballus*).
 764 Two nails or hoofs of a horse, exhibiting the laminated structure.
 765 Vertical sections of hoofs of a horse.
 766 Vertical section of nail or hoof of a mule (*Equus asinus caballus*), showing thickness of wall and sole.
 771 Four sound hoofs of a horse (*Equus caballus*) after several years' shoeing—a form of hoof remarkable for durability.
 772 A sound hoof of a horse (*Equus caballus*) properly shod for several years.
 773 Four sound hoofs of a horse (*Equus caballus*), four years old, never shod.

- No.
 774 An anterior and a posterior hoof of a horse (*Equus caballus*), two years old, properly shod.
 775 Inorganic frog (*Inter-ungual cartilage*) of a horse (*Equus caballus*).
 778 Metacarpus and phalanges of a horse (*Equus caballus*), with ligaments, flexor, and extensor tendons.
 779 Ligamentous preparation of a foot of a horse (*Equus caballus*), with flexor and extensor tendons.
 783 Nail phalanges with cartilaginous hoof of a horse (*Equus caballus*).
 784 Nail phalanges or bony hoofs, in sections, of a horse (*Equus caballus*), exhibiting internal structure.
 785 Cartilaginous sole of a hoof of a horse (*Equus caballus*).
 808 Lower part of anterior extremity of a horse (*Equus caballus*), skin and hoof removed.
 1209 Cast of anterior foot of a horse (*Equus caballus*), showing arteries, veins, tendons, nerves, and ligaments.
 636 Calculus from the stomach of a horse (*Equus caballus*), with a nail as nucleus.
 637 Hair ball from the stomach of a horse (*Equus caballus*).
 641 Calculus from the stomach of a horse (*Equus caballus*), with a pebble for a nucleus.
 642 Calculus from the stomach of a horse (*Equus caballus*).
 645 Do. do. do.
 646 Do. do. do.
 647 Do. do. do.
 648 Do. do. do.
 649 Hair ball do. do.
 661 Calculus do. do.
 810 Intestinal calculus of a horse do.
 1410 Do. do. do.
 1441 Do. do. do.
 1754 Two large urinary (?) calculi from a horse do.
 2055 Salivary calculus from the parotid gland of a mule (*Equus asinus caballus*).

Family RHINOCERIDÆ.

- 640 A piece of tanned skin of a rhinoceros.

ORDER Cetacea.

- 1184 Penis of a whale.
 660 Calculus found in the stomach of a whale.

ORDER Rodentia.

Family MURIDÆ.

- 1234 Encephalon of a rat (*Mus decumanus*).

Family CASTORIDÆ.

- Five embryos of the American beaver (*Castor canadensis*).

Family SCIURIDÆ.

- 1411 Three embryos from a prairie dog (*Cynomys ludovicianus*).

No.

- 122 Encephalon of a gray squirrel (*Sciurus carolinensis*).

Family CAVIIDÆ.

- 872 A guinea-pig (*Cavia caboya*) with rudimentary clavicles.

- 873 Cecum with portion of ileum and colon of a guinea-pig (*Cavia caboya*), exhibiting large development of vermiciform process, which is six inches long and one and one quarter inches in diameter.

Family LEPORIDÆ.

- 1755 Two uteri with embryos from a jackass rabbit (*Lepus collotis*).

- 121 Encephalon of an eastern gray rabbit (*Lepus sylvaticus*).

- 1138 *Tenia* from intestines of a marsh rabbit (*Lepus palustris*).

ORDER Bruta.

Family DASYPODIDÆ.

- 1524 Two embryos from an armadillo.

- 1523 Skin of an armadillo.

ORDER Marsupialia.

Family MACROPODIDÆ.

- 1416 Head of a fœtal Kangaroo and teat of dam.

Family DIDELPHIDÆ.

- 1220 Encephalon of an opossum (*Didelphys virginianus*).

- 1029 *Entozoa* from the stomach of an opossum.

LIST OF CRANIA, SKELETONS, AND STERNA OF BIRDS.

Note.—The classification adopted is that of Dr. Elliot Coues, U. S. A., in his *Key to North American Birds*, 1872, and the nomenclature corresponds with his *Check List of North American Birds*, 1873.

CLASS **AVES**.

SUB-CLASS **Carinatae**: Carinate Birds.

ORDER **Passeres**: Perches.

SUB-ORDER **OSCINES**: Singing Birds.

Family **TURDIDÆ**: *Thrushes*.

Sub-Family *Turdinæ*: Typical Thrushes.

Cran.	Skel.	Ster.	
33 56 294 295	46		<i>Turdus migratorius</i> , L. <i>Robin</i> .
296 297 298 2284 2285	2282	2283	<i>Turdus mustelinus</i> , Gm. <i>Wood Thrush</i> .
303			<i>Turdus pallasi</i> , Cab., var. <i>nanus</i> (Aud.), Cs. <i>Dwarf Thrush</i> .
304 2265 2267 2305		2266	<i>Turdus swainsoni</i> , Cab. <i>Olive-backed Thrush</i> .
		2306	<i>Turdus swainsoni</i> , Cab., var. <i>aliciae</i> (Baird) Cs. <i>Alice's Thrush</i> .
299 300 301 302			<i>Turdus fuscescens</i> , Steph. <i>Wilson's Thrush</i> ; <i>Veery</i> .
			Sub-Family <i>Miminæ</i> : <i>Mocking Thrushes</i> .
340 341	883		<i>Mimus polyglottus</i> (L.), Boie. <i>Mockingbird</i> .
342 343 344 345			<i>Mimus carolinensis</i> (L.), Gr. <i>Catbird</i> .

Cran.	Skel.	Ster.	
346 347 2300	45	2301	<i>Harporhynchus rufus</i> (L.), Cab. <i>Brown Thrush; Thrasher.</i>
1567			<i>Harporhynchus redivivus</i> , Cab. <i>Sickle-bill Thrush.</i>
		1478	<i>Harporhynchus curvirostris</i> (Sw.), Cab., var. <i>palmeri</i> , Ridg. <i>Curve-billed Thrush.</i>
		1465	<i>Harporhynchus crissalis</i> , Henry. <i>Red-vented Thrush.</i>
			Family SAXICOLIDÆ: <i>Stone Chats.</i>
305 306 307 2279	1109		<i>Sialia sialis</i> (L.), Haldeman. <i>Eastern Bluebird.</i>
			Family SYLVIDÆ: <i>Sylvia.</i>
			Sub-Family <i>Regulinæ</i> : <i>Kinglets.</i>
2307 2318		2319	<i>Regulus satrapa</i> , Licht. <i>Golden-crested Kinglet.</i>
2443			<i>Regulus calendula.</i> <i>Ruby-crowned Kinglet.</i>
			Sub-Family <i>Poliophtilinae</i> : <i>Gnatcatchers.</i>
355 356			<i>Poliophtila cærulea</i> , Sel. <i>Blue-gray Gnatcatcher.</i>
			Family PARIDÆ: <i>Titmice.</i>
354 2195 2288 1495		2196	<i>Lophophanes bicolor</i> (L.), Bp. <i>Tufted Titmouse.</i>
		1496	<i>Lophophanes inornatus</i> (Gamb.), Cass. <i>Plain Titmouse.</i>
		1476	<i>Lophophanes wollweberi</i> , Bp. <i>Bridled Titmouse.</i>
357 358			<i>Parus atricapillus</i> , L. <i>Black-capped Chickadee.</i>
2407 2408		2220	<i>Parus atricapillus</i> , L., var. <i>septentrionalis</i> (Harris), All. <i>Long-tailed Chickadee.</i>
1371 1372 1373 1374			<i>Parus atricapillus</i> , L., var. <i>carolinensis</i> (Aud.), Cs. <i>Carolina Chickadee.</i>
			Family SITTIDÆ: <i>Nuthatches.</i>
350 351 2198 2199		2200	<i>Sitta carolinensis</i> , Gm. <i>White-bellied Nuthatch.</i>
2398		2405	<i>Sitta carolinensis</i> , Gm., var. <i>aculeata</i> (Cass.), All. <i>Slender-billed Nuthatch.</i>
352 353			<i>Sitta canadensis</i> , L. <i>Red-bellied Nuthatch.</i>

Cran.	Scol.	Ster.	
			Family CETHIIDÆ: <i>Creepers</i> .
	1713	1507	<i>Certhia familiaris</i> , L. <i>Brown Creeper</i> .
1516	1402	1517	<i>Campylorhynchus brunneicapillus</i> (Lafr.), Gr. <i>Brown-headed Creeper-Wren</i> .
			Family TROGLODYTIDÆ: <i>Wrens</i> .
2317			<i>Thryothorus ludovicianus</i> , Bp.
349			<i>Troglodytes ædon</i> , V. <i>House Wren</i> .
1513			<i>Troglodytes ædon</i> , V., var. <i>parkmanni</i> (Aud.), Cs. <i>Western House Wren</i> .
2439			
2308			<i>Anorthura troglodytes</i> (L.), Cs., var. <i>hyemalis</i> (Wils.), Cs. <i>Winter Wren</i> .
348			<i>Telmatodytes palustris</i> (Nils.), Cab. <i>Long-billed Marsh Wren</i> .
1348			<i>Cistothorus stellaris</i> (Licht.), Cab. <i>Short-billed Marsh Wren</i> .
			Family ALAUDIDÆ: <i>Larks</i> .
359	1434	1430	<i>Eremophila alpestris</i> (Forst.), Boie. <i>Horned Lark</i> ; <i>Shore Lark</i> .
913			
914			
2406			
			Family SYLVICOLIDÆ: <i>American Warblers</i> .
2271	2297	2531	<i>Mniotilta varia</i> (L.), V. <i>Black-and-white Creeper</i> .
2292		2272	
2440			
309			<i>Parula americana</i> (L.), Bp. <i>Blue Yellow-backed Warbler</i> .
310			
1349		1350	<i>Helminthophaga peregrina</i> (Wils.), Cal. <i>Tennessee Warbler</i> .
2276			
2277			
2304			
321		1331	<i>Dendroica aestiva</i> (Gm.), Bd. <i>Summer Warbler</i> .
322			
1330			
1332			
316	2213	2274	<i>Dendroica virens</i> (Gm.), Bd. <i>Black-throated Green Warbler</i> .
2273			
315			<i>Dendroica cærulescens</i> (L.), Bd. <i>Black-throated Blue Warbler</i> .
2444			
	2238		<i>Dendroica cærulea</i> (Wils.), Bd. <i>Cerulean Warbler</i> .
325		2299	<i>Dendroica coronata</i> (L.), Gr. <i>Yellow-rumped Warbler</i> ; <i>Myrtle Bird</i> .
326			
2298			
2428			
2429			

Cran.	Skel.	Ster.	
327 2268			<i>Dendroeca blackburniæ</i> (Gm.), Bd. <i>Blackburnian Warbler.</i>
323 324 2311		2312	<i>Dendroeca striata</i> (Forst.), Bd. <i>Black-poll Warbler.</i>
317 318 2269		2270	<i>Dendroeca castanea</i> (Wils.), Bd. <i>Bay-breasted Warbler.</i>
319 320 1847 2430		2532	<i>Dendroeca pennsylvanica</i> (L.), Bd. <i>Chestnut-sided Warbler.</i>
328			<i>Dendroeca discolor</i> (V.), Bd. <i>Prairie Warbler.</i>
2290 2316 2438 2442		2291	<i>Sciurus aurocapillus</i> (L.), Sw. <i>Golden-crowned Thrush.</i>
311 312 313 314			<i>Geothlypis trichas</i> (L.), Cab. <i>Maryland Yellow Throat.</i>
1431		1432	<i>Geothlypis macgillivrayi</i> (Aud.), Bd. <i>Macgillivray's Warbler.</i>
303			<i>Icteria virens</i> (L.), Bd. <i>Yellow-breasted Chat.</i>
329 330 331 332			<i>Setophaga ruticilla</i> (L.), Sw. <i>Redstart.</i>
Family TANAGRIDÆ: <i>Tanagers.</i>			
308			<i>Pyranga rubra</i> (L.), V. <i>Scarlet Tanager.</i>
2264			<i>Pyranga æstiva</i> (L.), V. <i>Summer Redbird.</i>
1510			<i>Pyranga æstiva</i> (L.), V., var. <i>cooperi</i> (Ridg.), Cs. <i>Cooper's Tanager.</i>
1497			<i>Pyranga hepatica</i> , Sw. <i>Hepatic Tanager.</i>
Family HIRUNDINIDÆ: <i>Swallows.</i>			
1499	157	1521	<i>Hirundo horreorum</i> , Barton. <i>Barn Swallow.</i>
325 551 1013 1014	101		<i>Tachycineta bicolor</i> (V.), Cs. <i>White-bellied Swallow.</i>
333 334	2404		<i>Petrochelidon lunifrons</i> (Say), Cab. <i>Cliff Swallow; Evee Swallow.</i>

Cran.	Skel.	Ster.	
1629	2402	1630	<i>Cotyle riparia</i> (L.), Boie. <i>Bank Swallow.</i>
1514		1515	<i>Stelgidopteryx serripennis</i> (Aud.), Bd. <i>Rough-winged Swallow.</i>
1621 1622 1623	1506	1624	<i>Progne purpurea</i> (L.), Boie. <i>Purple Martin.</i>
2115			<i>Progne rubris</i> , Baird. <i>Purple Martin.</i>
			Family AMPELIDÆ: <i>Waxwings.</i>
2394 2395		2396	<i>Ampelis garrulus</i> , L. <i>Bohemian Waxwing.</i>
32 64 65 336			<i>Ampelis cedorum</i> (V.), Bd. <i>Cedar Bird; Cherry Bird.</i>
			Family VIREONIDÆ: <i>Greenlets.</i>
337 338 339 2314		2315	<i>Vireo olivaceus</i> (L.), V. <i>Red-eyed Vireo.</i>
1460		1461	<i>Vireo vicinior</i> , Coues. <i>Gray Vireo.</i>
			Family LANIIDÆ: <i>Shrikes.</i>
		1474	<i>Collurio borealis</i> (V.), Bd. <i>Great Northern Shrike; Butcherbird.</i>
			Family FRINGILLIDÆ: <i>Finches, etc.</i>
377 378 379 1010	593		<i>Fringilla canaria</i> , Linn. <i>Canary Bird.</i>
		1277	
	1101		<i>Pyrrhula vulgaris</i> , Cuv. <i>Bulfinch.</i>
	1110		<i>Carduelis elegans</i> , Bp. <i>Goldfinch.</i>
382 1375			<i>Carpodacus purpureus</i> (Gm.), Gr. <i>Purple Finch.</i>
2095			<i>Carpodacus cassini</i> , Baird. <i>Cassin's Purple Finch.</i>
1501	1519	1502	<i>Carpodacus frontalis</i> (Say), Gr. <i>Crimson-fronted Finch; House Finch.</i>
374			<i>Loxia curvirostra</i> , L., var. <i>americana</i> (Wils.), Ca. <i>Common Crossbill.</i>
2401		2400	<i>Leucosticte tephrocotis</i> , Sw. <i>Gray-crowned Finch.</i>
2397		2399	<i>Aegiothus linaria</i> (L.), Cab. <i>Red Poll Linnet.</i>

Cran.	Skel.	Ster.	
375 376 1376	1207		<i>Chrysomitris tristis</i> (L.), Bp. <i>American Goldfinch; Yellow-bird.</i>
1493		1494	<i>Chrysomitris psaltria</i> (Say), Bp. <i>Arkansas Goldfinch.</i>
1684			<i>Plectrophanes maccrownii</i> , Lawr. <i>McCrown's Lark Bunting.</i>
2400 2410		2533	<i>Plectrophanes nivalis</i> (L.), Meyer. <i>Snow Bunting.</i>
383 384 385 1333 1334		1335	<i>Passerculus savanna</i> (Wils.), Bp. <i>Savannah Sparrow.</i>
1663 1664 1665		1666	<i>Poocetes gramineus</i> (Gm.), Bd. <i>Baywinged Bunting.</i>
2431			<i>Poocetes gramineus</i> , var. <i>confinis</i> (Gm.), Bd. <i>Western Grass Finch.</i>
339 370	2703	2286	<i>Melospiza palustris</i> (Wils.), Bd. <i>Swamp Sparrow.</i>
392 1379 2201 2202	2140 2289		<i>Melospiza melodia</i> (Wils.) Bd. <i>Song Sparrow.</i>
976			<i>Melospiza melodia</i> (Wils.), Bd., var. <i>fallax</i> (Bd.), Ridg. <i>Gray Song Sparrow.</i>
386 387 388 389	1	2194	<i>Junco hyemalis</i> (L.), Scl. <i>Snow Bird.</i>
1518			<i>Junco cinereus</i> (Sw.), Cab., var. <i>caniceps</i> (Woodh.), Cs. <i>Cinereous Snow Bird.</i>
390 1378	2403		<i>Spizella monticola</i> (Gm.), Bd. <i>Tree Sparrow.</i>
381			<i>Spizella socialis</i> (Wils.), Bp. <i>Chipping Sparrow.</i>
1488			<i>Spizella socialis</i> (Wils.), Bp., var. <i>arizonæ</i> , Cs. <i>Arizona Chipping Sparrow.</i>
380 1447 2293 2294	2310	1448	<i>Spizella pusilla</i> (Wils.), Bp. <i>Field Sparrow.</i>
1503 1504		1505	<i>Spizella pallida</i> (Sw.), Bp., var. <i>breweri</i> (Cass.), Cs. <i>Brewer's Sparrow.</i>

Cran.	Skel.	Ster.	
371 372 373 1377		2302	<i>Zonotrichia albicollis</i> (Gm.), Bp. <i>White-throated Sparrow.</i>
2117			<i>Zonotrichia leucophrys</i> (Forst.), Sw. <i>White-crowned Sparrow.</i>
2112			<i>Chondestes grammacus</i> (Say), Bp. <i>Lark Finch.</i>
368 2262		2263	<i>Passerella iliaca</i> (Merrem.), Sw. <i>Fox Sparrow.</i>
1486 1610		1487 1611	<i>Calamospiza bicolor</i> (Townsend), Bp. <i>Lark Bunting; White-winged Blackbird.</i>
367 1636 1637 1638		1639	<i>Euspiza americana</i> (Gm.), Bp. <i>Black-throated Bunting.</i>
1345 2426 2427	1136	1346	<i>Goniaphea ludoviciana</i> (L.), Bowdich. <i>Rose-breasted Grosbeak.</i>
1511 2110		1512	<i>Goniaphea melanocephalus</i> (Sw.), ———. <i>Black-headed Grosbeak.</i>
391			<i>Cyanospiza cyanea</i> (L.), Bd. <i>Indigo Bird.</i>
40 360 361 362		1278	<i>Cardinalis virginianus</i> (Brisson), Bp. <i>Cardinal Redbird.</i>
363 364 365 366	2280	2281	<i>Pipilo erythrophthalmus</i> (L.), V. <i>Towhee Bunting; Chewink.</i>
1489			<i>Pipilo fuscus</i> , Sw. <i>Brown Towhee; Cañon Finch.</i>
			Family ICTERIDÆ: <i>American Starlings.</i>
37 79 394 395	584	1344	<i>Dolichonyx oryzivorus</i> (L.), Sw. <i>Bobolink; Reedbird; Rice-bird.</i>
396	1325		<i>Molothrus ater</i> (Gm.), Sw. <i>Cowbird.</i>
70 397 398 399	117		<i>Agelaius phœniceus</i> (L.), V. <i>Red-winged Blackbird.</i>
1492		1479	<i>Xanthocephalus icterocephalus</i> (Br.), Bd. <i>Yellow-headed Blackbird.</i>

Cran.	Skel.	Ster.	
400 401 402	14		<i>Sturnella magna</i> (L.), Sw. <i>Field Lark</i> ; <i>Meadow Lark</i> .
1613 1614 1615	1612	1471	<i>Sturnella magna</i> (L.), Sw. var. <i>neglecta</i> (Aud.), All. <i>Western Field Lark</i> .
403 1627		1628	<i>Icterus baltimore</i> (L.), Daudin. <i>Baltimore Oriole</i> .
1472 1520 2118		2411	<i>Icterus bullockii</i> (Sw.), Bp. <i>Bullock's Oriole</i> .
404 405 406	809		<i>Scolecophagus ferrugineus</i> (Gm.), Sw. <i>Rusty Grackle</i> .
939		1473	<i>Scolecophagus cyanocephalus</i> (Magl.), Cab. <i>Blue-headed Grackle</i> .
39 407 408 409	824	1279	<i>Quiscalus purpureus</i> (Bartr.), Licht. <i>Purple Grackle</i> ; <i>Crow Blackbird</i> .
Family CORVIDÆ: Crows.			
Sub-Family <i>Corvinæ</i> : Ravens and Crows.			
410 707 927 1467 1568			<i>Corvus corax</i> , Linn. <i>Raven</i> .
411			<i>Corvus cryptoleucus</i> , Couch. <i>White-necked Raven</i> .
412 413 838	133		<i>Corvus americanus</i> , Aud. <i>Common Crow</i> .
414			<i>Corvus ossifragus</i> , Wils. <i>Fish Crow</i> .
926 979 1391			<i>Picicorvus columbianus</i> (Wils.), Bp. <i>Clarke's Crow</i> .
971			<i>Gymnokitta cyanocephala</i> , Maxim. <i>Blue Crow</i> .
Sub-Family <i>Garrulinæ</i> : Jays.			
	1400	2102	<i>Pica melanoleuca</i> , V., var. <i>nuttalli</i> (Aud.), Cs. <i>Yellow-billed Magpie</i> .
415 416 417 418	115		<i>Cyanurus cristatus</i> (L.), Sw. <i>Blue Jay</i> .

Cran.	Skel.	Ster.	
		1469	<i>Aphelocoma floridana</i> (Bartr.), Cab., var. <i>Woodhousei</i> (Bd.) All. <i>Woodhouse's Jay</i> .
419			<i>Perisoreus canadensis</i> (L.), Bp. <i>Canada Jay</i> ; <i>Whiskey Jack</i> .
ORDER STRUTHIONIDÆ : <i>Clamatores</i> .			
Family TYRANNIDÆ : <i>American Flycatchers</i> .			
291 292 1340 1341	1339	1342	<i>Tyrannus carolinensis</i> (L.), Bd. <i>Kingbird</i> ; <i>Bee-Martin</i> .
1642 1643 1644 1645	1641	1646	<i>Tyrannus verticalis</i> (Say). <i>Arkansas Flycatcher</i> .
2128 2287	1752	2220	<i>Sayornis fuscus</i> (Gm.), Bd. <i>Pewee Pewee</i> ; <i>Phoebe Bird</i> .
293			<i>Contopus virens</i> (L.), Cab. <i>Wood Pewee</i> .
1508	1498	1509	<i>Contopus virens</i> (L.), Cab., var. <i>richardsonii</i> (Sw.), Cs. <i>Western Wood Pewee</i> .
ORDER PICARIÆ : <i>Picarian Birds</i> .			
SUB-ORDER CYPSELÆ : <i>Cypseliform Birds</i> .			
Family CAPRIMULOIDÆ : <i>Goatsuckers</i> .			
	861		<i>Antrostomus vociferus</i> (Wils.), Bp. <i>Whippoorwill</i> ; <i>Night-Jar</i> .
1648 1649 1650	1647	1651	<i>Chordeiles virginianus</i> (Briss.), Bp., var. <i>henryi</i> (Cass.), All. <i>Western Night-Hawk</i> .
Family CYPSELIDÆ : <i>Swifts</i> .			
1500			<i>Panyptila saxatilis</i> (Woodh.), Cs. <i>White-throated Swift</i> .
	171		<i>Chaetura pelusgia</i> (L.), Steph. <i>Chimney Swift</i> .
Family TROCHILIDÆ : <i>Humming-Birds</i> .			
290			<i>Trochilus colubris</i> , L. <i>Ruby-throated Humming-Bird</i> .
1456 1457 1458		1459	<i>Trochilus alexandri</i> , Bourc. <i>Black-chinned Humming-Bird</i> .
1453 1454 2232		1455	<i>Selasphorus rufus</i> (Gm.), Sw. <i>Rufous-backed Humming-Bird</i> .
1449 1450 1451		1452	<i>Selasphorus platycercus</i> (Sw.), Gld. <i>Broad-tailed Humming-Bird</i> .

Cran.	Skel.	Step.	
		1522	<i>Stellula calliope</i> (—), Gld. <i>Calliope Humming-Bird</i> .
			Family ALCIDINIDÆ: <i>Kingfishers</i> .
		155	<i>Ceryle alcyon</i> (L.), Boie. <i>Belted Kingfisher</i> .
			Family CUCULIDÆ: <i>Cuckoos</i> .
1466 1738		1464	<i>Geococcyx californianus</i> (Less.), Bd. <i>Ground Cuckoo</i> ; <i>Chaparral Cock</i> .
281 2441	2140		<i>Coccyzus erythrophthalmus</i> (Wils.), Bd. <i>Black-billed Cuckoo</i> .
278 279 280			<i>Coccyzus americanus</i> (L.), Bp. <i>Yellow-billed Cuckoo</i> .
			Family PICIDÆ: <i>Woodpeckers</i> .
621 718	550		<i>Hylotomus pileatus</i> (L.), Bd. <i>Pileated Woodpecker</i> ; <i>Logcock</i> .
2121			<i>Picus albolarvatus</i> (Cass.), Baird. <i>White-headed Woodpecker</i> .
	1184		<i>Picus scalaris</i> , Wagl. <i>Ladder-back Woodpecker</i> .
602 1370			<i>Picus villosus</i> , L. <i>Hairy Woodpecker</i> .
1491		1477	<i>Picus villosus</i> , L., var. <i>harrisi</i> (Aud.), All. <i>Harris' Woodpecker</i> .
282 283 2131	2197	2132	<i>Picus pubescens</i> , L. <i>Downy Woodpecker</i> .
		1475	<i>Picoides americanus</i> , Brehm., var. <i>dorsalis</i> (Bd.), All. <i>Striped-backed Woodpecker</i> .
1379 1336 2309	811	1276	<i>Sphyrapicus varius</i> (L.), Bd. <i>Yellow-bellied Woodpecker</i> .
		1397	<i>Sphyrapicus thyroideus</i> (Cass.), Bd. <i>Brown-headed Woodpecker</i> .
2295	2275	2296	<i>Centurus carolinus</i> , (L.), Bp. <i>Red-bellied Woodpecker</i> .
	1483		<i>Centurus uropygialis</i> , Bd. <i>Gila Woodpecker</i> .
2116			<i>Asyndesmus torquatus</i> (Wils.), Cs. <i>Lewis' Woodpecker</i> .
284 285 1337	1207	1338	<i>Melanerpes erythrocephalus</i> (L.), Sw. <i>Red-headed Woodpecker</i> .
286 287 288 289	118	1327	<i>Colaptes auratus</i> (L.), Sw. <i>Golden-winged Woodpecker</i> ; <i>Flicker</i> .

Cran	Skel.	Sk.	
2079 2164		1170	<i>Colaptes mexicanus</i> , Sw. <i>Red-shafted Woodpecker</i> .
ORDER Psittaci : Parrots.			
Family ARIDÆ : <i>Parroquets</i> .			
277			<i>Conurus carolinensis</i> (L.), Kuhl. <i>Carolina Parroquet</i> .
Family PSITTACIDÆ : <i>Typical Parrots</i> .			
275			<i>Psittacus erythacus</i> , Linn. <i>Red-tailed Parrot</i> .
276			<i>Chrysotis ochrocephala</i> (Gm.). <i>Yellow-fronted Parrot</i> .
ORDER Raptores : Birds of Prey.			
Family STRIGIDÆ : <i>Owls</i> .			
1351			<i>Strix flammea</i> (L.), var. <i>americana</i> (Aud.), Cs. <i>Barn Owl</i> .
270 837	860 2144		<i>Bubo virginianus</i> (Gm.), Bp. <i>Great Horned Owl</i> .
2499			<i>Bubo maximus</i> . <i>Great Owl</i> .
274	610 2120	.	<i>Scops asio</i> (L.), Bp. <i>Screech Owl</i> ; <i>Mottled Owl</i> .
	603	1211	<i>Otus vulgaris</i> (L.), var. <i>wilsonianus</i> (Less.), All. <i>Long-eared Owl</i> .
273 788 2091	591		<i>Brachyotus palustris</i> (Bechst), Bp. <i>Short-eared Owl</i> .
272	156		<i>Syrnium nebulosum</i> (Forst.), Gr. <i>Barred Owl</i> .
271			<i>Nyctea nivea</i> (Daud.), Gr. <i>Snowy Owl</i> .
897			<i>Nyctale acadica</i> (Gm.), Bp. <i>Acadian Owl</i> ; <i>Saw-whet Owl</i> .
		1193	<i>Glaucidium passerinum</i> (L.), Bp., var. <i>californicum</i> (Sel.), Ridg. <i>Pygmy Owl</i> .
Family FALCONIDÆ : <i>Diurnal Birds of Prey</i> .			
268 921 2388		2392	<i>Circus cyaneus</i> (L.), Lacép., var. <i>hudsonius</i> (L.), Cs. <i>Marsh Hawk</i> ; <i>Harrier</i> .
2299			<i>Elanus leucurus</i> (V.), Bp. <i>White-tailed Kite</i> ; <i>Black-shouldered Kite</i> .
940 1294	604 2461	1295	<i>Accipiter fuscus</i> (Gm.), Bp. <i>Sharp-shinned Hawk</i> ; <i>Pigeon Hawk</i> .
266 717	800		<i>Accipiter cooperi</i> , Bp. <i>Cooper's Hawk</i> ; <i>Chicken Hawk</i> .

Cran.	Skel.	Ster.	
265	139	2225	<i>Astur atricapillus</i> (Wils.), Bp. <i>Goshawk</i> .
922			<i>Falco</i> (Hiero-falco) <i>gyrfalco</i> (Linn.), var. <i>islandicus</i> , Sabine.
2230		1386	<i>Falco mexicanus</i> (Licht.), var. <i>polyagrus</i> , Ridg. <i>Lanier Falcon</i> .
923			<i>Falco communis</i> . <i>Peregrine Falcon</i> ; <i>Duck Hawk</i> .
269 924			<i>Falco columbarius</i> , L. <i>Pigeon Hawk</i> .
1594 2108		1595	<i>Falco sparverius</i> , L. <i>Sparrow Hawk</i> .
263 264 716 2082	15	2083	<i>Buteo borealis</i> (Gm.), V. <i>Red-tailed Buzzard</i> ; <i>Hen Hawk</i> .
1485 2228 2229	1369	1462	<i>Buteo borealis</i> (Gm.), V., var. <i>calurus</i> (Cass.), Ridg. <i>Western Red-tailed Buzzard</i> .
267 708 2437			<i>Buteo lineatus</i> (Gm.), Jard. <i>Red-shouldered Buzzard</i> .
1685	2186	1385	<i>Buteo swainsoni</i> , Bp. <i>Swainson's Buzzard</i> .
936 937 938	2080		<i>Archibuteo lagopus</i> (Brunn.), Gr., var. <i>sancti-johannis</i> (Gm.), Ridg. <i>Rough-legged Buzzard</i> .
		1463	<i>Asturina plagiata</i> , Schlegel. <i>Gray Hawk</i> .
	135		<i>Pandion haliaetus</i> (L.), Savigny. <i>Fish Hawk</i> ; <i>Osprey</i> .
891 1197 2353	796 2085		<i>Aquila chrysaetus</i> , (L.). <i>Golden Eagle</i> .
836 892 893 2107	583		<i>Haliaetus leucocephalus</i> (L.), Savigny. <i>White-headed Eagle</i> ; <i>Bald Eagle</i> .
			Family VULTURIDÆ: <i>Old World Vultures</i> .
	2460		<i>Neophron perconopterus</i> .
			Family CATHARTIDÆ: <i>American Vultures</i> .
709	138		<i>Cathartes aura</i> (L.), Illiger. <i>Turkey Buzzard</i> .
	2459		<i>Gyparchus papa</i> .
			ORDER COLUMBÆ: <i>Pigeons, etc.</i>
			Family COLUMBIDÆ: <i>Pigeons</i> .
1490			<i>Columba fasciata</i> , Say. <i>Band-tailed Pigeon</i> .

Cran.	Skel.	Ster.	
424	958		<i>Ectopistes migratorius</i> (L.), Sw. <i>Wild Pigeon.</i>
425	114		<i>Zenaidura carolinensis</i> (L.), Bp. <i>Carolina Dove.</i>
426			
427			
428			
429	18		<i>Columba livia</i> (domestica), Linn. <i>Common Pigeon.</i>
421			
422			
423			
ORDER Gallinae: Gallinaceous Birds.			
Family MELEAGRIDIDÆ: <i>Turkeys.</i>			
129	141		<i>Meleagris gallopavo</i> , L. <i>Turkey.</i>
430			
965	1440		<i>Meleagris gallopavo</i> (L.), var. <i>americana</i> (Bartr.), Cs. <i>Common Wild Turkey.</i>
966	1445		
1446			
Family PHASIANIDÆ: <i>Pheasants.</i>			
789	1044		<i>Pavo cristatus</i> , Linn. <i>Peacock.</i>
	1824		
38	41		<i>Gallus bankivi</i> , Temm. <i>Domestic Fowl.</i>
141			
432			
433			
Family NUMIDIDÆ: <i>Guinea Fowls.</i>			
434	27		<i>Numida meleagris</i> , Linn. <i>Guinea Fowl.</i>
Family TETRAONIDÆ: <i>Grouse, etc.</i>			
Sub-Family <i>Tetraoninae</i> : <i>Grouse.</i>			
145			<i>Tetrao canadensis</i> , L. <i>Canada Grouse; Spruce Partridge.</i>
1677			
1678			
1679			
1426	1427		<i>Centrocercus urophasianus</i> (Bp.), Sw. <i>Sage Cock; Cock-of-the-Plains.</i>
1672			
1673			
1674			
436	1428		<i>Pediocetes phasianellus</i> (L.), Ell. <i>Northern Sharp-tailed Grouse.</i>
1429			
437	140		<i>Cupidonia cupido</i> (L.), Bd. <i>Pinnated Grouse; Prairie Hen.</i>
438			
439			
	126		<i>Bonasa umbellus</i> (L.), Steph. <i>Ruffed Grouse; Partridge; Pheasant.</i>

Cran.	Skel.	Ster.	
940			<i>Lagopus albus</i> (Gm.), Aud. <i>Willow Ptarmigan</i> .
			Sub-Family <i>Odontophorinae</i> : American Partridge.
31 77 78 440	125	1280	<i>Ortyx virginianus</i> (L.), Bp. <i>Virginia Partridge</i> ; <i>Quail</i> ; <i>Bob-white</i> .
925			<i>Oreortyx pictus</i> (Dougl.), Bd. <i>Plumed Partridge</i> .
973			<i>Lophortyx californicus</i> (Shaw), Bp. <i>California Partridge</i> .
1392	1389	1393	<i>Cyrtonyx massena</i> (Less.), Gld. <i>Massena Partridge</i> .
			ORDER GRALLATORES : Wading Birds.
			SUB-ORDER LIMICOLÆ : Shore Birds.
			Family CHARADIIDÆ : <i>Plover</i> .
			Sub-Family <i>Charadriinae</i> : True Plover.
868 920	867		<i>Charadrius fulvus</i> , (Gm.), var. <i>virginicus</i> (Borek.), Cs. <i>Golden Plover</i> .
606 607 991 2260	150	2261	<i>Ægialitis vociferus</i> (L.), Cass. <i>Killdeer Plover</i> .
1681 1682 1683			<i>Ægialitis asiaticus</i> (Pall.), var. <i>montanus</i> (Townsend), Coues. <i>Mountain Plover</i> .
2255 2256		2246	<i>Hematopus palliatus</i> , Temm. <i>Oyster-catcher</i> .
			Family RECURVIROSTRIDÆ : <i>Avocets</i>
1598 1599 1676 2100	1596	1387 1597	<i>Recurvirostra americana</i> , Gm. <i>Avocet</i> .
2099	1359	1552	<i>Himantopus nigricollis</i> , V. <i>Stilt</i> .
			Family PHALAROPIDÆ : <i>Phalaropes</i> .
1435 1436	1640	1437	<i>Steganopus wilsoni</i> (Sab.), Cs. <i>Wilson's Phalarope</i> .
2122 2123	2120	2124	<i>Lobipes hyperboreus</i> (L.), Cuv. <i>Northern Phalarope</i> .
			Family SCOLOPACIDÆ : <i>Snipe, etc.</i>
449	116		<i>Philohela minor</i> (Gm.), Gr. <i>American Woodcock</i> .
450 898 1201	151	1292	<i>Gallinago wilsoni</i> (Temm.), Bp. <i>American Snipe</i> ; <i>Wilson's Snipe</i> .

Cran.	Skel.	Ster.	
1481	1480	1482	<i>Ereunetes pusillus</i> (L.), Cass. <i>Semi-palmated Sandpiper.</i>
1617	1616	1620	<i>Tringa minutilla</i> , V. <i>Least Sandpiper.</i>
1618			
1619			
1626			<i>Tringa bairdii</i> , Coues. <i>Baird's Sandpiper.</i>
1641	1642	1654	<i>Tringa maculata</i> , V. <i>Pectoral Sandpiper.</i>
1642			
1631		1630	<i>Tringa bonapartii</i> , Sohl. <i>White-rumped Sandpiper.</i>
1632			
1633			
1634			
451			<i>Tringa alpina</i> (L.), var. <i>americana</i> , Cas. <i>American Dunlin.</i>
456	1652		<i>Limosa fedoa</i> (L.), Ord. <i>Great Marble Godwit.</i>
1698			
1607	1606	1606	<i>Totanus semi-palmatus</i> , Gm. <i>Tattler; Semi-palmated Tattler.</i>
1608			
1609			
2096			
	1293		<i>Totanus melanoleucus</i> , Gm. <i>Greater Tell-tale.</i>
452	102		<i>Totanus flavipes</i> , Gm. <i>Yellow-Shanks.</i>
453			<i>Totanus solitarius</i> , Wils. <i>Solitary Tattler.</i>
454			<i>Tringoides macularius</i> (L.), Gr. <i>Spotted Sandpiper.</i>
455			
1654	1425	1641	<i>Actiturus bartramius</i> (Wils.), Bp. <i>Bartramian Sandpiper;</i>
1660			<i>Upland Plover.</i>
		2226	<i>Heteroscelus incanus</i> (Gm.), Coues. <i>Wandering Tattler.</i>
458			<i>Numenius longirostris</i> , Wils. <i>Long-billed Curlew.</i>
459			
1079			
457			<i>Numenius hudsonicus</i> , Lath. <i>Hudsonian Curlew.</i>
928			<i>Numenius borealis</i> (Forst.), Lath. <i>Esquimaux Curlew.</i>
929			
SUB-ORDER HERIODIONES : Herons and their Allies.			
Family TANTALIDÆ: <i>Ibises</i> , etc.			
Sub-Family <i>Ibidinæ</i> : True Ibises.			
448	2104		<i>Ibis falcinellus</i> , (Auct.), var. <i>ordii</i> (Bp.), All. <i>Glossy Ibis.</i>
2097			
447			<i>Ibis alba</i> (L.), V. <i>White Ibis.</i>

Cran.	Skel.	Ster.	
1016 1163			<i>Platalea ajaja</i> , L. <i>Roscate Spoonbill</i> .
1162			<i>Tantalus loculator</i> , L. <i>Wood Ibis</i> .
Family ARDEIDÆ: <i>Heron</i> s.			
Sub-Family Ardeinæ: <i>True Heron</i> s.			
1012 2189	582	2190	<i>Ardea herodias</i> , L. <i>Great Blue Heron</i> .
2227			<i>Ardea egretta</i> , Gm. <i>Great White Egret</i> .
442			<i>Ardea leucogastra</i> , (Gm.), var. <i>leucoprymna</i> (Licht.), Cs. <i>Louisiana Heron</i> .
443 444 445	1011	1281	<i>Ardea virescens</i> , L. <i>Green Heron</i> .
446			<i>Nyctiardea grisea</i> (L.), Steph., var. <i>nævia</i> (Bodd.), Allen. <i>Night Heron</i> .
	1289		<i>Botaurus minor</i> (Gm.). <i>Bittern</i> ; <i>Indian Hen</i> .
SUB-ORDER ALECTORIDES: <i>Cranes</i> , <i>Rails</i> , etc.			
Family GRUIDÆ: <i>Cranes</i> .			
2076			<i>Grus americanus</i> (L.), Ord. <i>White Crane</i> ; <i>Hooping Crane</i> .
441 1675 2098	1688		<i>Grus canadensis</i> (L.), Temm. <i>Brown Crane</i> ; <i>Sandhill Crane</i> .
Family RALLIDÆ: <i>Rails</i> .			
Sub-Family Rallinæ: <i>True Rails</i> .			
	2258		<i>Rallus longirostris</i> , Bodd. <i>Clapper Rail</i> ; <i>Salt-water Marsh-Hen</i> .
977			<i>Rallus virginianus</i> , L. <i>Virginia Rail</i> .
461 460			<i>Porzana carolina</i> (L.), V. <i>Carolina Rail</i> ; <i>Sora</i> ; <i>Ortolan</i> .
462 463 464	124		<i>Fulica americana</i> , Gm. <i>Coot</i> .
ORDER Lamelli-rostres: <i>Anserine Birds</i> .			
Family ANATIDÆ: <i>Swans</i> , <i>Geese</i> , and <i>Ducks</i> .			
Sub-Family Cygninæ: <i>Swans</i> .			
465 901 902	12	2389	<i>Cygnus americanus</i> , Sharpless. <i>Whistling Swan</i> .
2419	1586		<i>Cygnus olor</i> , L. <i>European Swan</i> .

Cran.	Skel.	Ster.	
Sub-Family <i>Anserinae</i> : Geese.			
930			<i>Anser hyperboreus</i> , Pall. <i>Snow Goose</i> .
466			<i>Anser ferus</i> (domesticus), Linn. <i>Common Goose</i> .
467			
468			
469	149		<i>Anser cygnoides</i> , Linn. <i>Swan Goose</i> .
473		2188	<i>Branta bernicla</i> , L. <i>Brant Goose</i> .
474			
2187			
941			<i>Branta bernicla</i> , var. <i>nigricans</i> (L.), Cs. <i>Brant Goose</i> .
470		17	<i>Branta canadensis</i> , L. <i>Canada Goose</i> ; <i>Wild Goose</i> .
471			
472			
1127			
931			<i>Branta canadensis</i> (L.), var. <i>hutchinsii</i> (Rich.), Cs. <i>Hutchins</i>
932			<i>Goose</i> .
933			
Sub-Family <i>Anatinae</i> : River Ducks.			
477	1115		<i>Anas boschas</i> , L. <i>Mallard</i> .
478			
839			
479			<i>Anas obscura</i> , Gm. <i>Dusky Duck</i> .
97		1282	<i>Anas boschas</i> (domesticus), Linn. <i>Common Duck</i> .
98		1283	
475			
476	1051		<i>Cairina moschata</i> . <i>Muscovy Duck</i> .
480	1112	1281	<i>Dasila acuta</i> (L.), Jenyns. <i>Pintail</i> ; <i>Sprigtail</i> .
481			
1691			<i>Chaulelasmus streperus</i> , L. <i>Gray Gullwall</i> ; <i>Gray Duck</i> .
1692			
1693			
1694			
486	1114		<i>Mareca americana</i> (Gm.), Steph. <i>American Widgeon</i> ; <i>Bald</i>
487			<i>pate</i> .
488			
936			
482	1117		<i>Querquedula carolinensis</i> (Gm.). <i>Green-winged Teal</i> .
483			
934	741		<i>Querquedula discors</i> (L.), Steph. <i>Blue-winged Teal</i> .
1668		1388	<i>Querquedula cyanoptera</i> (V.), Cass. <i>Cinnamon Teal</i>
2106			
2119			

Cran.	Skel.	Ster.	
484 485 942 943	1122	1285	<i>Spatula clypeata</i> (L.), Boie. <i>Shorellover.</i>
489 490 491	109		<i>Aix sponsa</i> (L.), Boie. <i>Summer Duck; Wood Duck.</i>
			Sub-Family <i>Fuligulinae</i> : Sea Ducks.
492			<i>Fuligula marila</i> (L.), Steph. <i>Greater Blackhead.</i>
493 494 495	1124		<i>Fuligula affinis</i> , Eyton. <i>Lesser Blackhead.</i>
496 497 498	2193		<i>Fuligula collaris</i> (Donovan), Bp. <i>Ring-necked Duck.</i>
499 500 946 947	1123		<i>Fuligula ferina</i> (L.), Sw., var. <i>americana</i> (Eyton), Cs. <i>Red-head; Pochard.</i>
501 502 503 504	1125		<i>Fuligula vallisneria</i> (Wils.), Steph. <i>Canvas-back.</i>
505 506 507 508	1128	1468 1553	<i>Bucephala clangula</i> (L.), Gr. <i>Golden-eyed Duck.</i>
1695 1696		1697	<i>Bucephala islandica</i> (Gm.), Bd. <i>Barrow's Goldeneye.</i>
509 510 511 512	129		<i>Bucephala albeola</i> (L.), Bd. <i>Buffle-headed Duck; Butter-ball.</i>
514 515 918	1119		<i>Harelda glacialis</i> (L.), Leach. <i>Long-tailed Duck.</i>
513			<i>Histrionicus torquatus</i> (L.), Bp. <i>Harlequin Duck.</i>
917			<i>Somateria spectabilis</i> (L.), Leach. <i>King Eider.</i>
628 1132	627		<i>Edemia fusca</i> (L.), Sw. (? var. <i>velvetina</i> , Cass). <i>Velvet Scoter.</i>
894			<i>Edemia perspicillata</i> (L.), Fleming. <i>Surf Duck.</i>
516 517 617	1111		<i>Erismatura rubida</i> (Wils.), Bp. <i>Ruddy Duck.</i>

Cran.	Skel.	Stom.	
Sub-Family <i>Merginæ</i> : Mergansers.			
614 840	8 2009	1286	<i>Mergus merganser</i> , L. <i>Merganser</i> ; <i>Goosander</i>
2391	1130	2380	<i>Mergus serrator</i> , L. <i>Red-breasted Merganser</i> .
518 519	1118		<i>Mergus cucullatus</i> , L. <i>Hooded Merganser</i> .
Family PHENICOPTERIDÆ			
	2498		<i>Phœnicopterus antiquorum</i> . <i>Flamingo</i> .
ORDER Steganopodes : Totipalmate Birds.			
Family PELECANIDÆ : Pelicans.			
520 1076 1689 2092		1690 2093	<i>Pelecanus trachyrhynchus</i> , Lath. <i>White Pelican</i> .
895 1087			<i>Pelecanus fuscus</i> , L. <i>Brown Pelican</i> .
521			<i>Graculus carbo</i> (L.), Gray. <i>Common Cormorant</i> ; <i>Skag</i> .
1699 1700		1701	<i>Graculus dilophus</i> (Sw.), Gray. <i>Double-crested Cormorant</i> .
		1287	<i>Graculus bicristatus</i> (Pall.), Bd. <i>Red-faced Cormorant</i> .
522			<i>Plotus anHINGA</i> , L. <i>AnHINGA</i> ; <i>Darter</i> .
ORDER Longipennes : Long-winged Swimmers.			
Family LARIDÆ : Gulls, Terns, etc.			
Sub-Family <i>Iestridinæ</i> : Jaegers, or Skua Gulls.			
916			<i>Stercorarius parasiticus</i> (Brunn.), Gray. <i>Richardson's Jaeger</i> .
Sub-Family <i>Larinæ</i> : True Gulls.			
900	1246		<i>Larus glaucescens</i> , Licht. <i>Glaucous-winged Gull</i> .
1055 1657	826	1658	<i>Larus argentatus</i> , Brunn. <i>Herring Gull</i> ; <i>Common Gull</i> .
	153		<i>Larus delawarensis</i> , Ord. <i>Ring-billed Gull</i> .
		2101	<i>Larus delawarensis</i> , var. <i>californicus</i> (Lawe), Coues. <i>California Gull</i> .
		1248	<i>Larus tridactylus</i> , L. <i>Kittiwake</i> .
525 899	2519	2520	<i>Larus philadelphia</i> (Ord.), Cs. <i>Bonaparte's Gull</i> .
	1625		<i>Larus franklin</i> , Rich. <i>Franklin's Rosy Gull</i> .

Cran.	Skel.	Ster.	
Sub-Family <i>Sterninæ</i> : Terns.			
2248 2249 2250	2247	2251	<i>Sterna anglica</i> , Montagu. <i>Gull-billed Tern</i> ; <i>Marsh Tern</i> .
2479		2245	<i>Sterna regia</i> , Gambel. <i>Royal Tern</i> .
1702 2252 2253	1662	2254	<i>Sterna hirundo</i> , L. <i>Common Tern</i> ; <i>Sea Swallow</i> .
1602 1603 1604 2114	1600	1601	<i>Sterna forsteri</i> , Nutt. <i>Forster's Tern</i> .
1655 2105	173 2125	1656 2103	<i>Hydrochelidon flssipes</i> (L.), Gray. <i>Black Tern</i> .
Sub-Family <i>Rhynchopinæ</i> .			
2476 2477 2478	2257		<i>Rhynchops nigra</i> , L. <i>Black Skimmer</i> .
Family PROCELLARIIDÆ: Petrels.			
Sub-Family <i>Diomedeinæ</i> : Albatrosses.			
523			<i>Diomedea nigripes</i> , Aud. <i>Black-footed Albatross</i> .
Sub-Family <i>Procellariinæ</i> : True Petrels.			
524			<i>Fregetta grallaria</i> (V.), Bp. <i>White-bellied Petrel</i> .
ORDER Pygopodes : Diving Birds.			
Family COLYMBIDÆ: Loons.			
611	2522		<i>Colymbus torquatus</i> , Brunn. <i>Loon</i> ; <i>Great Northern Diver</i> .
944			<i>Colymbus arcticus</i> , L. <i>Black-throated Diver</i> .
526			<i>Colymbus arcticus</i> , L., var. <i>pacificus</i> (Lawr.), Cs. <i>Pacific Diver</i> .
527			<i>Colymbus septentrionalis</i> , L. <i>Red-throated Diver</i> .
Family PODICIPIDÆ: Grebes.			
2109		2090	<i>Podiceps occidentalis</i> , Lawe. <i>Western Grebe</i> .
919			<i>Podiceps griseigena</i> (Bodd.), Gray, var. <i>holböllii</i> (Reinh.), Cs. <i>Red-necked Grebe</i> .
1121	1120		<i>Podiceps cornutus</i> (Gm.), Lath. <i>Horned Grebe</i> .
720			<i>Podilymbus podiceps</i> (L.), Lawr. <i>Pied-billed Dabchick</i> .

Cran.	Skel.	Spec.	
			Family ALCIDÆ : <i>Auks</i> .
		1250	<i>Phalaris psittacula</i> (Pall.), Temm. <i>Paroquet Auk</i> .
		1251	<i>Simorhynchus cristatellus</i> (Pall.), Merrem. <i>Crested Auk</i> .
		1249	<i>Simorhynchus camtschaticus</i> (Lepech.), Schl. <i>Whiskered Auk</i> .
		1247	<i>Uria</i> , sp.
			SUB-CLASS Ratitæ : Struthious Birds.
			ORDER Struthionæ : Struthious Birds.
			Family STRUTHIONIDÆ : <i>Ostrich</i> .
	1438		<i>Struthio camelus</i> , Linn. <i>Ostrich</i> .
			Family CASUARIIDÆ : <i>Emeus</i> , etc.
			Sub-Family: <i>Dromainæ</i> : <i>Emeus</i> .
	1439		<i>Dromæus novæ-hollandiæ</i> , Lath. <i>Common Emeu</i> .

MONSTROSITIES AND MISCELLANEOUS SPECIMENS OF AND FROM BIRDS.

- No.
- 1027 *Entozoa* found in gray song sparrow (*Melospiza melodia*).
- 1032 *Entozoa* found in cañon finch (*Pipilo fuscus*).
- 1034 *Entozoa* found in vireo *pusillus*.
- 2417 *Entozoa* found in the abdominal cavity of a meadow lark (*Sturnella magna*).
- 2516 *Passerculus anthinus* (In spirit).
- 2517 *Passerculus rostratus* (In spirit).
- 2518 *Chrysomitris laurencii* (In spirit).
- 127 Encephalon of a woodpecker (*Picus villosus*).
- 1039 Tongue with os hyoides in connection with the bulbi olfactorii of a wood pecker (*Hylotomus pileatus*).
- 136 Stomach of a fish-hawk (*Pandion haliaetus*).
- 594 Parasites found in trachea of bald eagle (*Haliaetus leurocephalus*).
- 1030 *Entozoa* from eye socket of swallow-tailed kite (*Nauclerus furcatus*).
- 1033 *Entozoa* found in western red-tailed buzzard (*Buteo borealis*).
- 137 Alimentary canal of a turkey buzzard (*Cathartes aura*).
- 1199 Larynx and trachea of a turkey buzzard (*Cathartes aura*).
- 158 Skeleton of a chicken (*Gallus bankivi*) with double body and one head.
- 578 Skeleton a young chicken (*Gallus bankivi*) with two additional legs attached to coecyx.
- 618 Embryo of a domestic fowl (*Gallus bankivi*).
- 842 Embryo of a domestic fowl (*Gallus bankivi*) with four legs.
- 855 Skeleton of an embryo of a domestic fowl (*Gallus bankivi*) with one head, two necks, two bodies, and four wings.
- 912 Pelvis of a chicken (*Gallus bankivi*) with a supernumerary os innominatum and four legs.
- 960 Skeleton of an malformed embryo chicken (*Gallus bankivi*). The hemicephalus cranium has two perfect faces; the cervical vertebræ are doubly thick; the two thoraces form but one cavity with two well-developed sterna; there are four wings and four legs.
- 1000 Embryo of chicken (*Gallus bankivi*) with double cranium, having two bills and three eyes.
- 1071 Skeleton of a young chicken (*Gallus bankivi*) with an additional pelvis, four legs, and two additional rudimentary wings.
- 1139 Skeleton of a chicken (*Gallus bankivi*) with three legs and four feet.
- 1179 A chicken (*Gallus bankivi*) with two bodies, four wings, four legs, and one head.
- 1180 A chicken (*Gallus bankivi*) with two bodies, four wings, four legs, and one head.
- 1234 Skeleton of a young chicken (*Gallus bankivi*) with four legs. The cranium is hemicephalus, and contains no brain; has a double inferior maxilla; there are spina bifida of the vertebral column.
- 1254 Skeleton of a chicken (*Gallus bankivi*) with an additional pelvis and two additional legs.

- No.
- 1556 Skeleton of a chicken (*Gallus bankivi*) with four legs.
- 1917 Skeleton of a chicken (*Gallus bankivi*) with three legs, the additional leg being attached to the os coccygis by two muscular bands. The bones of the additional leg are ankylosed.
- 2239 Skeleton of a young chicken (*Gallus bankivi*) with two bodies and one head.
- 2386 Egg of a Cochín-China fowl (*Gallus bankivi*), weighing about seven ounces. When opened, a full-size well-developed egg was found within.
- 2456 Four-legged chicken (*Gallus bankivi*).
- 1025 *Entozoa* from the throat of a chicken (*Gallus bankivi*) with gapes.
- 1268 Pelvis of a domestic fowl (*Gallus bankivi*).
- 1575 Two of eight eggs found in the ovaries of a chicken (*Gallus bankivi*), which carried them for two years. The eggs are thickly covered with a gelatinous substance.
- 2425 A double egg.
- 2416 Tapeworm from the intestines of a sage-cock (*Centrocercus urophasianus*), with a portion of the intestine, in which the parasite still remains.
- 2469 Tumor removed from below anus of a hen.
- 2512 Tumor removed from a hen.
- 2513 Solid ovarian tumor taken from a hen.
- 143 Alimentary canal of a turkey (*Meleagris gallopavo*).
- 643 Duplex embryo of a duck (*Anas boschas*).
- 1108 Skeleton of common duck (*Anas domestica*) with three legs. The bones of the third leg are ankylosed.
- 1242 Cranium of a goose (*Anser domestica*), with posterior fontanelle.
- 7 Eye of a swan (*Cygnus americanus*), with palpebral and lachrymal glands.
- 119 Encephalon of a duck (*Anas boschas*).
- 1113 Inferior larynx of a sprigtail (*Dafila acuta*).
- 1116 Organs of respiration of a mallard (*Anas boschas*).
- 1126 Inferior larynx of a canvas-back (*Faligula callisneria*).
- 1129 Respiratory organs of golden-eyed duck (*Bucephala clangula*).
- 1131 Respiratory organs of red-breasted merganser (*Mergus serrator*).
- 1026 *Entozoa* from the stomach of a brown pelican (*Pelicanus fuscus*).
- 1415 *Entozoa* from the horned grebe (*Podiceps cornutus*).

LIST OF CRANIA AND SKELETONS OF REPTILIA AND BATRACHIA.

Note.—The classification and nomenclature adopted are substantially, according to Prof. Edward D. Cope, in his "*Check List of North American Batrachia and Reptilia*," Bull. U. S. Nat. Mus. No. 1.

CLASS REPTILIA.

ORDER Ophidia.

SUB-ORDER SOLENOGLYPHA.

Family CROTALIDÆ: *Rattlesnakes, etc.*

Cran.	Skel.	
545 615	1968	<i>Crotalus horridus</i> , Linn. <i>Banded Rattlesnake</i> ; <i>Northern Rattlesnake</i> .
1582 2214	2465 700 1966	<i>Crotalus adamanteus</i> , var. <i>adamanteus</i> (Beauv.), Cope. <i>Diamond Rattlesnake</i> .
993 1757	1758 1979	<i>Crotalus adamanteus</i> , var. <i>atrox</i> (Bd. and Gird.), Cope. <i>Sonoran Rattlesnake</i> .
	2174	<i>Crotalus lucifer</i> , Baird and Girard. <i>California Rattlesnake</i> .
2043	1980	<i>Crotalus confluentus</i> , Say. <i>Common Western Rattlesnake</i> .
2211		<i>Crotalus molussus</i> , Bd. and Girard. <i>Rattlesnake</i> .
1952 1955	1953 1978	<i>Caudisona miliaria</i> , Linn. <i>Sand Rattler</i> ; <i>Small Spotted Rattlesnake</i> .
2215	1992	<i>Caudisona tergemina</i> , Say. <i>Black Rattlesnake</i> ; <i>Prairie Rattlesnake</i> ; <i>Massassauga</i> .
	1925	<i>Ancistrodon piscivorus</i> , var. <i>piscivorus</i> (Lac.), Cope. <i>Water Moccasin</i> .
2212 2213	1003 1959	<i>Ancistrodon contortrix</i> , Bd. and Gird. <i>Moccasin</i> .
SUB-ORDER PROTEROGLYPHA.		
Family ELAPIDÆ: <i>The Vipers</i> .		
1319 1581	90	<i>Elaps fulvius</i> , var. <i>fulvius</i> (Linn.), Cope. <i>Harlequin Snake</i> ; <i>Bead Snake</i> .
1976	1956 1972	<i>Elaps fulvius</i> , var. <i>tener</i> (Baird and Girard), Cope. <i>Harlequin Snake</i> .

Cran.	Skel.	
SUB-ORDER ASINEA .		
Family COLUBRIDÆ: <i>Colubrine Serpents</i> .		
	1941	<i>Carphophiops helena</i> , Kennicott.
899	94	<i>Carphophiops amoenus</i> , Say. <i>Red Snake</i> ; <i>Ground Snake</i> ;
	2029	<i>Worm Snake</i> .
	1985	<i>Haldea striatula</i> , Linn. <i>Brown Snake</i> .
	2055	<i>Tantilla gracilis</i> , Baird and Girard.
	1020	<i>Tantilla nigriceps</i> , Kenn.
2041	1946	<i>Farancia abacura</i> , Holbrook. <i>Red-bellied Horn Snake</i> .
	2038	<i>Cemophora coccinea</i> , Blumenbach. <i>Scarlet Snake</i> .
	1733	<i>Rhinochilus lecontei</i> , Baird and Girard. <i>LeConte's Snake</i> .
	1963	
	1945	<i>Ophibolus doliatus</i> , var. <i>coccineus</i> (Schlegel), Cope. <i>Ring Snake</i> .
1091	83	<i>Ophibolus doliatus</i> , var. <i>gentilis</i> (Bd. and Grd.), Cope. <i>King Snake</i> .
	1038	<i>Ophibolus doliatus</i> , var. <i>doliatus</i> (Linn.), Cope. <i>Red Snake</i> ;
		<i>Common Snake</i> .
	1961	<i>Ophibolus doliatus</i> , var. <i>triangulus</i> (Boie), Cope. <i>Milk Snake</i> ;
		<i>House Snake</i> ; <i>Spotted Adder</i> ; <i>Thunder and Lightning Snake</i> ;
		<i>Chicken Snake</i> .
2021	994	<i>Ophibolus getulus</i> , var. <i>boylii</i> (Bd. and Grd.), Cope. <i>Boyle's</i>
	2012	<i>Chain Snake</i> .
1090	1974	<i>Ophibolus getulus</i> , var. <i>sayi</i> (Holbrook), Cope. <i>Say's Chain Snake</i> .
	701	<i>Ophibolus</i> , var. <i>getulus getulus</i> (Linn.), Cope. <i>Thunder</i>
	1947	<i>Snake</i> ; <i>King Snake</i> .
	1984	
	2018	<i>Ophibolus polyzonus</i> .
1414	706	<i>Diadophis punctatus</i> var. <i>punctatus</i> (Linn.), Cope. <i>Ring-</i>
	831	<i>necked Snake</i> .
	2014	
	851	<i>Diadophis punctatus</i> , var. <i>amabilis</i> (Cope), Bd. and Grd. <i>Ring-</i>
	1970	<i>necked Snake</i> .
	2011	<i>Hypsiglena ochrorhyncha</i> , Cope.
	1964	<i>Sibon annulatum</i> , var. <i>septentrionale</i> (Kenn.), Cope.
	1942	<i>Phimothyra grahamiæ</i> , Baird and Girard. <i>Graham's Snake</i> .

Cran.	Skel.	
548 1231	590 2025	<i>Cyclophis vernalis</i> , DeKay. <i>Green Snake</i> .
1975	1971	<i>Cyclophis aestivus</i> , Linn. <i>Green Snake</i> .
	1089 1969	<i>Coluber emoryi</i> , Baird and Girard. <i>Emory's Snake</i> .
	743 1931 1958	<i>Coluber vulpinus</i> , Baird and Girard. <i>Fox Snake</i> .
	2010	<i>Coluber quadrivittatus</i> , Holbrook. <i>Chicken Snake</i> .
	1018 2017	<i>Coluber obsoletus</i> , var. <i>obsoletus</i> (Say), Cope.
	1087	<i>Coluber obsoletus</i> , var. <i>confinis</i> (Say), Cope. <i>Pilot Black Snake</i> ; <i>Racer</i> .
2216	1213 1948 2011	<i>Coluber guttatus</i> , Linn. <i>Chicken Snake</i> ; <i>Spotted Racer</i> .
	1988	<i>Pityophis sayi</i> , var. <i>sayi</i> (Schlegel), Cope. <i>Pine Snake</i> ; <i>King Snake</i> .
1222	1221 1987	<i>Pityophissayi</i> , var. <i>mexicanus</i> , Dum. and Bib. <i>Gopher Snake</i> .
980 2017	1223 1536 1999	<i>Pityophis sayi</i> , var. <i>bellona</i> , Bd. and Grd. <i>Bull Snake</i> .
	53	<i>Bascanium constrictor</i> (Linn.), Bd. and Grd. <i>Black Snake</i> .
1944		<i>Bascanium</i> , <i>flagelliforme</i> var. <i>flagelliforme</i> (Catesby), Cope. <i>Whip Snake</i> ; <i>Couch-whip Snake</i> .
702 982 2031	1759 1991	<i>Bascanium flagalliforme</i> var. <i>testaceum</i> (Say), Bd. and Grd.
	1530 1951	<i>Bascanium tæniatum</i> , var. <i>laterale</i> (Halowell), Cope.
	1529 1934	<i>Bascanium tæniatum</i> , var. <i>tæniatum</i> , Halowell.
	705 2002	<i>Eutænia saurita</i> , Linn. <i>Ribbon Snake</i> ; <i>Swift Garter Snake</i> .
995	1088 2008	<i>Eutænia faireyi</i> , Bd. and Gird. <i>Fairie's Garter Snake</i> .
	1994	<i>Eutænia proxima</i> , Say. <i>Say's Garter Snake</i> .
	2022 2023	<i>Eutænia radix</i> , Baird and Girard. <i>Hoy's Garter Snake</i> .

Cran.	Skel.	
	2173	<i>Eutania radix</i> , var. <i>twiningii</i> (Bd. and Gird.), C's. and Var. <i>Twining's Garter Snake</i> .
	1973	<i>Eutania macrostemma</i> , var. <i>megalops</i> (Kenn.), Cope.
547 1911 1948	84 2013	<i>Eutania marciana</i> , Bd. and Gird. <i>Marcy's Garter Snake</i> .
1528 2020	1527 2024	<i>Eutania vagrans</i> (Bd. and Gird.), Cope. <i>Common Western Garter Snake</i> .
	1229	<i>Eutania elegans</i> , Bd. and Gird. <i>Elegant Garter Snake</i> .
	1998 2027	<i>Eutania ornata</i> , Baird.
1318	85 1900	<i>Eutania sirtalis</i> , var. <i>dorsalis</i> , Bd. and Gird. <i>Eastern Garter Snake</i> .
1533	1909 1936 2176	<i>Eutania sirtalis</i> , var. <i>ordinata</i> (Linn.), Bd. and Gird.
546 1228 1907	12 1227 2001	<i>Eutania sirtalis</i> , var. <i>sirtalis</i> (Linn.), Bd. and Gird.
	911	<i>Eutania sirtalis</i> , var. <i>parietalis</i> (Linn.), Say.
1893		<i>Eutania sirtalis</i> , var. <i>obscura</i> (Linn.), Cope. <i>Dusky Garter Snake</i> ; <i>Black Back Garter Snake</i> .
	2039	<i>Eutania sirtalis</i> , var. <i>pickeringii</i> (Bd. and Gird.), Cope. <i>Pickering's Garter Snake</i> .
	1939	<i>Eutania cooperii</i> , Kennicott. <i>Cooper's Garter Snake</i> .
	1980	<i>Storeria occipitomaculata</i> , Storer. <i>Red-bellied Snake</i> .
2053	2053	<i>Storeria dekayi</i> , Holbrook. <i>DeKay's Brown Snake</i> .
	858 1982	<i>Tropidonotus grahamii</i> , Bd. and Gird. <i>Graham's Water Snake</i> .
2034	598 1997	<i>Tropidonotus leberis</i> , Linn. <i>Yellow-bellied Snake</i> ; <i>Leather Snake</i> .
	1901 1962 1977	<i>Tropidonotus fasciatus</i> , Linn. <i>Banded Water Snake</i> ; <i>Pig Snake</i> .
540 1949	800 1935	<i>Tropidonotus sipedon</i> , var. <i>sipedon</i> (Linn.), Cope. <i>Water Snake</i> ; <i>Water Adder</i> .
	1214	<i>Tropidonotus sipedon</i> var. <i>woodhouseii</i> (Bd. and Gird.), Cope. <i>Woodhouse's Snake</i> .
	2006	<i>Tropidonotus sipedon</i> , var. <i>erythrogaster</i> (Shaw), Cope. <i>Red-bellied Water Snake</i> .

Cran.	Skcl.	
1916	703	<i>Heterodon platyrhinus</i> , Latreille. <i>Western Sand Viper</i> ; <i>Blowing Hog</i> ; <i>Viper Adder</i> ; <i>Nose Snake</i> .
1954	1086	
1957		
	1926	<i>Heterodon platyrhinus</i> , var. <i>atnodes</i> (Baird and Girard), Cope. <i>Hog-nose Snake</i> ; <i>Spreading Adder</i> .
	2016	<i>Heterodon platyrhinus</i> , var. <i>niger</i> (Baird and Girard), Yarrow. <i>Black Viper</i> ; <i>Black Adder</i> .
1582	1587 2178	<i>Heterodon simus</i> , var. <i>simus</i> (Linn.), Cope. <i>Hog-nosed Snake</i> .
1226	768	<i>Heterodon simus</i> , var. <i>nasicus</i> (Bd. and Girard), Cope. <i>Hog-nosed Snake</i> ; <i>Sand Viper</i> ; <i>Western Spreading Adder</i> .
2000	1769	
	1986	

Family BOIDÆ: *Boas*.

542	<i>Boa constrictor</i> , Linn. <i>Boa</i> .
543	
544	

ORDER **Lacertilia**: The Lizards.

SUB-ORDER **OPHEOSAURI**.

Family AMPHISBÆNIDÆ.

1910	<i>Rhineura floridana</i> , Cope.
1995	

ORDER **Pleurodonta**.

SUB-ORDER **LEPTOGLOSSA**.

Family SCINCIDÆ: *Skinks*.

1103	962	<i>Eumeces obsoletus</i> , Bd. and Gird. <i>Pale Lizard</i> .
998		
999		
2.81		<i>Eumeces skiltonianus</i> , Bd. and Gird. <i>Skilton's Skink</i> .
876	1215	<i>Eumeces fasciatus</i> , Linn. <i>Striped Lizard</i> ; <i>Blue-tailed Skink</i> .
1216	1899	
1271		
1272		
1273		
1274		
2028		

Family TEIDÆ.

91	2037	<i>Cnemidophorus sexlineatus</i> , Linn. <i>Six-lined Lizard</i> .
92		
541		
1542		
1543		
1990		
2004		

Cran.	Skel.	
	1902	Cnemidophorus tessellatus, var. tigris (Bd. and Gird.), Cope. <i>Tiger Lizard</i> .
1717		Cnemidophorus tessellatus, var. tessellatus (Say), Cope. <i>Tessellated Lizard</i> .
1718		
1719		
1720		
SUB-ORDER DIPLOGLOSSA.		
Family ANGUIDÆ: <i>The Glass Snakes</i> .		
1915	1937	Ophiosaurus ventralis, Daudin. <i>Glass Snake</i> .
2049	1960	
Family GERRHONOTIDÆ.		
	1906	Gerrhonotus multicarinatus, Blainville.
Family HELODERMIDÆ.		
	1736	Heloderma suspectum, Cope. <i>Gila Monster</i> .
	2243	
Family IGUANIDÆ: <i>Iguanas</i> .		
	44	Metapocerus cornutus, Wagler. <i>South American Lizard</i> .
	1367	
1900	1907	Iguana rhinolopha, Wregmann.
	1444	Iguana tuberculata, Wagler. <i>Banded Iguana</i> .
	1908	Cyclura hemilopha.
	1175	Iguana?
1004	684	Holbrookia maculata, var. maculata (Girard), Cope. <i>Prairie Lizard</i> .
1005		
1753	1909	Sauromalus ater, Dumeril. <i>Big-bellied Lizard</i> .
1921		
803	742	Crotophytus collaris, Say. <i>Ring-necked or collared Lizard</i> .
1584	1911	
1585	1927	
1930	1905	Crotophytus wislizenii, Baird and Girard. <i>Wislizenius' Lizard</i> .
2015		
	1904	Dipsosaurus dorsalis, Baird and Girard.
2035		Uta stansburiana, Baird and Girard. <i>Stansbury's Lizard</i> .
2040		Sceloporus poinsetti, Baird and Girard. <i>Poinsett's Lizard</i> .
86	69	Sceloporus undulatus, var. undulatus (Harlan), Cope. <i>Common Lizard; Brown Swift; Pine Tree Swift; Pine Lizard</i> .
89		
500		
540		

Cran.	Skel.	
1540 1967		Sceloporus consobrinus, Bd. and Girard. <i>Western Lizard.</i>
1442	1104 1929	Sceloporus spinosus, Wiegmann. <i>Western Spiny Lizard.</i>
2175		Sceloporus clarkii, var. clarkii (Baird and Girard), Cope. <i>Clark's Lizard.</i>
1566 2032	1565	Phrynosoma modestum, Girard. <i>Horned Toad.</i>
2218 2219	2217	Phrynosoma hernandezii, Girard.
1564 1912	1563 2045	Phrynosoma platyrhinum, Girard. <i>Horned Toad.</i>
	1555	Phrynosoma maccalli, Hallowell. <i>MacCall's Horned Lizard.</i>
	1534	Phrynasoma regale, Girard. <i>Regal Horned Lizard.</i>
538	82 1983	Phrynosoma cornutum, Harlan. <i>Horned Lizard.</i>
1443 1913 2020	1399	Phrynosoma douglassii, var. douglassii (Bell), Cope. <i>Douglas' Horned Lizard; Horned Toad.</i>
1903	1562	Phrynosoma blainvillei, Gray. <i>Blainville's Horned Lizard.</i>
1561	1559 1965	Phrynosoma coronatum, Plainville. <i>California Horned Toad.</i>
Family ANOLIDÆ.		
1914	2042	Anolis principalis, Linn. <i>Chameleon Green Lizard.</i>
ORDER Rhynchocephalia.		
Family HATTERIDÆ.		
	2502	Hatteria punctata.
ORDER Testudinata: Shield Reptiles.		
SUB-ORDER CRYPTODIRA.		
Family CHELONIIDÆ: Sea Turtles.		
528 529 577 675 1919		Thalassochelys caonana, Linn. <i>Hawksbill Turtle.</i>
530 682 789		Chelonia mydas, Schw. <i>Green Turtle.</i>

	Skel.	
2148		<i>Chelonia caretta</i> , Gm.
		Family CHELYDRIDÆ.
831 843 847	19	<i>Chelydra serpentina</i> , Linn. <i>Snapping Turtle</i> .
		Family CINOSTERNIDÆ.
666 667 668 669	674	<i>Cinosternum pennsylvanicum</i> , var. <i>pennsylvanicum</i> (Bosc), Cope. <i>Mud Turtle</i> .
		Family EMYDIDÆ: <i>Tortoises</i> .
652 653 654 655	9	[<i>Pseudemys rugosa</i> , Shaw. <i>Red-bellied Terrapin</i> .
	1252	<i>Pseudemys concinna</i> , Le Conte.
642	154	<i>Malacoclemmys palustris</i> , Gm. <i>Salt Marsh Turtle</i> ; <i>Diamond Back</i> .
644 645	1019	<i>Chrysemys picta</i> , Hern. <i>Painted Tortoise</i> .
	172	<i>Chelopus guttatus</i> , Schneider. <i>Yellow-spotted Turtle</i> .
533		<i>Chelopus inculptus</i> , Le Conte. <i>Wood Terrapin</i> ; <i>Wood Tortoise</i> .
536 537	2	[<i>Cistudo clausa</i> , var. <i>clausa</i> (Gmelin), Cope. <i>Common Land Turtle</i> ; <i>Box Tortoise</i> .
		Family TESTUDINIDÆ.
	1580	<i>Testudo carolina</i> , Linn. <i>Gopher</i> .
		ORDER Crocodili.
		Family CROCODILIDÆ.
1576 1577 2242	819 1185	<i>Alligator mississippiensis</i> , Daud. <i>Common Alligator</i> .

MISCELLANEOUS SPECIMENS OF AND FROM REPTILES AND BATRACHIA.

- No.
- 1028 *Entozoa* found in a toad.
- 1188 *Tænia* from a leopard frog (*Rana halecina*).
- 96 Lungs of painted tortoise (*Chrysemys picta*).
- 844 Hyoid arch of a snapping turtle (*Chelydra serpentina*).
- 2514 Trachea of green turtle (*Chelonia mydas*).
- 2387 Deformed shell of a young water turtle.
- 87 Oviduct with eighteen embryos of eastern garter snake (*Eutania sexlineata dorsalis*).
- 1031 *Entozoa* found in a rattlesnake (*Crotalus horridus*).
- 1182 Ova of anaconda (*Boa constrictor*).
- 1225 Oviduct of water snake (*Tropidonotus sipedon*), containing eighteen embryos.
- 1932 *Entozoa* found in abdominal cavity of eastern garter snake (*Eutania sexlineata dorsalis*).
- 2471 Fang of rattlesnake.
- 1183 Hyoid bone of iguana (—).
- 1535 *Entozoa* from thoracic cavity of regal horned lizard (*Phrynosoma regalis*).
- 1560 Oviduct, with six ova, of a crown-horned lizard (*Phrynosoma coronatum*).
- 1590 Eggs of a horned frog (*Phrynosoma*).
- 820 Generative organs of an alligator (*Alligator mississippiensis*).
- 821 Larynx of an alligator (*Alligator mississippiensis*).
- 1186 *Entozoa* from an Alligator (*Alligator luscus*).
- 1187 Larynx, pharynx, and tongue of an alligator (*Alligator mississippiensis*).

LIST OF CRANIA AND SKELETONS OF BATRACHIA.

Note.—The classification and nomenclature adopted are according to Prof. Edward D. Cope, in his *Catalog List of North American Batrachians and Reptiles*, Bull. U. S. Nat. Mus. No. 1.

CLASS **BATRACHIA.**

ORDER **Trachystomata.**

Family **SIRENIDÆ**: *The Sirens.*

Cran.	Skel.	
	1322	<i>Siren lacertina</i> , Linn. <i>Mud Eel, or Siren.</i>
		ORDER Proteida.
		Family PROTEIDÆ : <i>The Mud Puppies.</i>
	1922	<i>Necturus lateralis</i> , Say. <i>Menobranchus</i> ; <i>Mud Puppy</i> ; <i>Water Dog</i> ; <i>Dogfish.</i>
		ORDER Caducibranchiata.
		Family MENOPOMIDÆ : <i>The Hellbenders.</i>
1935	165	<i>Menopoma allegheniense</i> , Harlan. <i>Alleghany Hellbender.</i>
	1924	<i>Big-water Lizard.</i>
	2503	<i>Sieboldia maxima.</i> <i>Great Salamander.</i>
		Family AMBLYSTOMIDÆ : <i>The Big Salamander.</i>
964	857 963	<i>Amblystoma mavortium</i> , Bd. <i>Spotted Salamander.</i>
	2424	<i>Amblystoma punctatum</i> , Linn. <i>Spotted Salamander.</i>
	679	<i>Amblystoma tigrinum</i> Green, <i>Azotl.</i> <i>Tiger Salamander.</i>
		ORDER Urodela.
		Family PLETHEDONTIDÆ : <i>The Salamanders.</i>
2019	915	<i>Plethodon glutinosus</i> , Green. <i>Salamander</i> ; <i>Viscid Salamander.</i>
549 2005		<i>Spelerpes ruber</i> , var. <i>ruber</i> (Daudin), Cope. <i>Red Triton.</i>
		Family DESMOGNATHIDÆ : <i>The Desmognaths.</i>
2052 2054		<i>Desmognathus</i> (Cope, var. <i>formica</i> (Raf.). Cope. <i>Dead-end Salamander.</i>

Cran.	Skel.	
		Family PLEURODELIDÆ : <i>The Nerots.</i>
	2046	<i>Diemyscylus torosus</i> , Eschl. <i>Western Spotted Nerot or Evet.</i>
1993 2003		<i>Diemyscylus miniatus</i> , var. <i>viridescens</i> (Raf.), Cope. <i>Spotted Triton; Nerot; Evet.</i>
		ORDER Anura.
		SUB-ORDER BUFONIFORMIA.
		Family BUFONIDÆ : <i>The Toads.</i>
	2179	<i>Bufo halophilus</i> , Baird.
	2172	<i>Bufo columbiensis</i> , Baird. <i>The Columbian Toad.</i>
1541	1401 2177	<i>Bufo microscaphus</i> , Cope. <i>Western Toad; Small Spade Toad.</i>
1532	1531	<i>Bufo lentiginosus</i> , var. <i>frontosus</i> (Shaw), Cope.
1539		<i>Bufo lentiginosus</i> , var. <i>cognatus</i> (Say), Cope.
	80 1943	<i>Bufo lentiginosus</i> , var. <i>americanus</i> (Le Conte), Cope. <i>American Toad.</i>
	1102 1981	<i>Bufo lentiginosus</i> , var. <i>lentiginosus</i> (Latr.), Cope. <i>Red-signed Toad.</i>
	1232	<i>Bufo quercicus</i> , Holbrook. <i>Oak Toad.</i>
		SUB-ORDER FIRMISTERNIA.
		Family ENGYSTOMIDÆ.
1265	93	<i>Engystoma carolinensis</i> , Holbrook. <i>Chestnut-colored Frog.</i>
		SUB-ORDER ARCIFERA.
		Family HYLIDÆ : <i>The Tree Frogs.</i>
	167	<i>Acris gryllus</i> , var. <i>gryllus</i> (Holbrook), Cope. <i>Southern Cricket Frog.</i>
	2039	<i>Hyla carolinensis</i> , Pennant. <i>Carolina Tree Toad.</i>
2050	2051	<i>Hyla versicolor</i> , Le Conte. <i>Common Tree Toad.</i>
		SUB-ORDER RANIFORMIA.
		Family RANIDÆ : <i>The Frogs.</i>
	6	<i>Rana halecina</i> , var. <i>halecina</i> (Kalm), Cope. <i>Gold-striped Frog; Shad Frog.</i>
1107	884 1940	<i>Rana palustris</i> , Le Conte. <i>Yellow-legged Frog; Marsh Frog; Pickerel Frog.</i>

Cran.	Skel.	
	60	<i>Rana catesbiana</i> , Shaw. <i>Bull Frog.</i>
	1923	
	2207	<i>Rana temporaria</i> , var. <i>silvatica</i> (Lee), Cope. <i>Swamp Frog.</i>
	2180	<i>Rana pretiosa</i> , Baird.

LIST OF CRANIA AND SKELETONS OF FISHES.

CLASS PISCES.

SUB-CLASS Teleostei.

ORDER Pediculati.

Family LOPHIIDÆ.

Cran.	Skel.	
1156 1157	1164 2376	<i>Lophius piscatorius</i> , Linn. <i>Goose Fish; Fishing Frog; Sea Devil.</i>
ORDER Plectognathi.		
SUB-ORDER GYMNODONTES.		
Family DIODONTIDÆ.		
1723 1839		<i>Chilomycterus geometricus</i> (Linn.), Kaup. <i>Spring Bear-fish; Rabbit Fish; Erizo; Porcupine Fish.</i>
Family TETRODONTIDÆ.		
1920	1413 1834	<i>Chilichthys turgidus</i> (Mitch.), Gill. <i>Rough Puffer; Porcupine Fish; Blower; Swell-fish; Tambour.</i>
SUB-ORDER SCALERODERMA.		
Family BALISTIDÆ.		
	1837	<i>Alutera cuspicauda</i> , De Kay. <i>Long-tailed File Fish.</i>
	1714 1821	<i>Alutera schœpffi</i> , Walb. <i>Hog Fish; File Fish.</i>
	1814	<i>Stephanolepis setifer</i> (Bennett), Gill. <i>Storer's File Fish; Fool Fish.</i>
	2345	<i>Balistes vetula</i> , Linn. <i>File Fish.</i>
ORDER Teleocephali.		
SUB-ORDER HETEROSOMATA.		
Family SOLEIDÆ.		
Sub-Family Soleinæ.		
	1873	<i>Achirus lineatus</i> (Linn.), Ow. <i>American Sole; Cortico Hog-choker; Coverclip; Spotted Sole.</i>
	2347 2348	<i>Solea vulgaris</i> , Linn. <i>Sole.</i>

Cran.	Skel.	
Family PLEURONECTIDÆ.		
1153	13	<i>Pseudopleuronectes americanus</i> (Walb.), Gill. <i>Common Flounder.</i>
1795 2359		<i>Pleuronectes glaber</i> (Storer), Gill. <i>Smooth Plaici; Smooth-back Flounder.</i>
2373		<i>Glyptocephalus cynoglossus</i> (Gottsch.), Gänth. <i>Cramp Flounder.</i>
Sub-Family Rhombinæ.		
1788		<i>Lophopsetta maculata</i> (Mitch.), Gill. <i>Spotted Turbot; Windoupane; Sand Flounder.</i>
Sub-Family Hippoglossinæ.		
107 1771		<i>Chænopsetta ocellaris</i> (De Kay), Gill. <i>Long-toothed Flounder.</i>
1785 2360		<i>Chænopsetta dentata</i> (Storer), Gill. <i>Southern Flounder.</i>
1830		<i>Chænopsetta oblonga</i> (Mitch.), Gill. <i>Four-spotted Flounder.</i>
2454		<i>Pleuronichthys verticalis</i> , J. and G.
152		<i>Hippoglossus americanus</i> , Gill. <i>Halibut.</i>
2206		<i>Platyamnicthys hippoglossoides</i> (Walb.), Claude and Bonn. <i>Turbot.</i>
SUB-ORDER ANACANTHINI.		
Family GADIDÆ.		
Sub-Family Gadinæ.		
1832		<i>Polladius carbonarius</i> (Linn.), Bou. <i>Pollock; Cod-fish.</i>
553	111	<i>Gadus morrhua</i> , Linn. <i>Common Cod-fish.</i>
Sub-Family Phycinæ.		
2368		<i>Phycis chuss</i> (Walb.), Gill. <i>Codling; Old English Hake; Squirrel Hake; Chus; Fork Beard; Ling.</i>
2363	2357	<i>Phycis tenuis</i> (Mitch.), De Kay. <i>Codling; White Hake; Squirrel Hake.</i>
	2331	<i>Urophycis regius</i> (Walb.), Gill. <i>Spotted Codling.</i>
	616 1772	<i>Microgadus tomcodus</i> (Walb.), Gill. <i>Tom Cod; Frost-fish.</i>
554	26	<i>Melanogrammus æglefinus</i> (Linn.), Gill. <i>Haddock.</i>
Sub-Family Lotinæ.		
1816		<i>Lota maculata</i> (Les.). <i>Ling; Burbot; Lake Lawyer; Eel-pout; Lake-cusk.</i>

Cran.	Skel.	
		Sub-Family <i>Ciliatina</i> .
	2337	<i>Onas cimbrius</i> (Linn.), Goode and Bean. <i>Rockling</i> .
		Sub-Family <i>Brosminæ</i> .
	626	<i>Brosnius americanus</i> , Gill. <i>European Cusk</i> ; <i>Polar Codfish</i> .
		Family MERLUCIDÆ.
	1141 1841	<i>Merlucius bilinearis</i> (Mitch.), Gill. <i>American Hake</i> .
		Family LYCODIDÆ.
		Sub-Family <i>Zoarcina</i> .
	1777	<i>Zoarces anguillaris</i> (Peck), Storer. <i>Eelpout</i> ; <i>Conger-eel</i> ; <i>Lamper-eel</i> .
		SUB-ORDER ACANTHOPTERI.
		Family CRYPTACANTHIDÆ.
	81 2329	<i>Cryptacanthodes maculatus</i> , Storer. <i>Ghost-fish</i> ; <i>Wry-mouth</i> .
		Family BLENNIDÆ.
	1862	<i>Murænoides mucronatus</i> (Mitch.), Gill. <i>Common Butter-fish</i> .
		Family BATRACHIDÆ.
	1726	<i>Batrachus tau</i> (Linn.). <i>Toad-fish</i> ; <i>Oyster-fish</i> .
	1842	<i>Porichthys porosissimus</i> (Cuv. and Val.), Günth.
		Family URANOSCOPIDÆ.
2340		<i>Astroscopus anoplus</i> .
		Family GOBIIDÆ.
		Sub-Family <i>Eleotridina</i> .
	1863	<i>Eleotris</i> , Sp.
	1859	<i>Dormitator</i> , Sp. <i>Sleeper</i> .
		Family TRIGLIDÆ.
		Sub-Family <i>Dactylopteriina</i> .
	1794 2414	<i>Dactylopterus volitans</i> (Linn.), Lac. <i>Flying Robin</i> ; <i>Bat-fish</i> ; <i>Cuitta de Mare</i> .
		Sub-Family <i>Triglina</i> .
2356	1729 1730	<i>Prionotus evolans</i> (Linn.), Gill. <i>Lined Sea Robin</i> ; <i>Flying-fish</i> .
	2530	<i>Prionotus palmipes</i> .
	1783	<i>Prionotus carolinus</i> (Linn.), Cuv. and Val. <i>Web-fingered Sea Robin</i> ; <i>Carolina Robin</i> .

Cran.	Skel.	
Family AGONIDÆ.		
Sub-Family Leptagonina.		
2323		Aspidophoroides monopterygius (Bloch.), Storer. <i>Greenlander</i> .
Family COTTIDÆ.		
Sub-Family Cottina.		
	1812	Cottus octodecemspinosus, Mitch. <i>Slender Sculpin</i> .
Family SCORPÆNIDÆ.		
2375		Sebastes marinus (Linn.), Lütken. <i>Red-fish; Snapper</i> .
	2452	Sebastichthys mystinus, J. and G.
2423		Sebastichthys chlorostictus, J. and G.
	2445	Sebastichthys atrovirens, J. and G.
	2442	Sebastichthys nebulosus (Ayres), Gill.
2446		Sebastichthys carnatus, J. and G.
	2455	Sebastichthys maliger, J. and G.
Family CHIRIDÆ.		
	2435	Zaniolepis latipinnis, Grd.
Family LABRIDÆ.		
570	54	Tautoga onitis (Linn.), Günth. <i>Black-fish; Tautog</i> .
	1775	Tautogolabrus adspersus (Walb.), Gill. <i>Cunner; Perch Nipper</i> .
Sub-Family Julidina.		
	1858	Oxyjulis modestus (Grd.), Gill.
Family EMBIOTOCIDÆ.		
	2453	Ditrema atripes, Jor. and Gilb.
	2433	Amphistichus argenteus, Gill.
	1739	Holconotus rhodoterus, Girard. <i>California Viraporous</i>
	1740	<i>Perch</i> .
	2372	Tæniotoca lateralis (Agass.), A. Agass.
	2371	Embiotoca jacksonii, Agassiz.
Family POMOCENTRIDÆ.		
1810	1751	Glyphidodon saxatilis (Linn.), Cuv. and Val. <i>Corpsilot; Sergeant-Major</i> .

Cran.	Skel.	
		Family ACANTHURIDÆ.
	1725	<i>Acanthurus chirurgus</i> , Bloch. and Schneider. <i>Surgeon Fish</i> ; <i>Doctor-fish</i> .
		Family CHÆTODONTIDÆ.
		Sub-Family <i>Chatodontinæ</i> .
	1762	<i>Sarothrodus binoculatus</i> (Bloch.), Poey. <i>Four-eyed Fish</i> .
	1861	<i>Heros</i> , Sp.
	1773	<i>Holocanthus ciliaris</i> , Lac. <i>Isabelita</i> ; <i>Angel-fish</i> .
		Family TRICHIURIDÆ.
1711		<i>Trichuirus lepturus</i> , Linn. <i>Silvery Hairtail</i> ; <i>Sword-fish</i> .
1868		
1869		
		Family SCARIDÆ.
1748	1748 1744	<i>Scarus radians</i> , Val. <i>Spanish Posgy</i> .
812		<i>Pseudoscaris guacamaia</i> (Cuv. and Val.), Günth. <i>Parrot-fish</i> .
846		
		Family SCOMBRIDÆ.
1100	59	<i>Scomber scombrus</i> , Linn. <i>Mackerel</i> .
	2412	<i>Scomber pneumatophorus</i> , De la Roche.
		Sub-Family <i>Oreyninæ</i> .
	1800	<i>Sarda pelamys</i> (Linn.), Cuv. <i>Bonito</i> ; <i>Skip-jack</i> .
1169	1168	<i>Oreynus thynnus</i> (Linn.), Goode. <i>Horse Mackerel</i> .
1170		
2378		<i>Euthynnus pelamys</i> (Linn.), Lütken. <i>Oceanic Bonito</i> .
1092	790	<i>Cybium maculatum</i> (Mitch.), Cuv. <i>Spanish Mackerel</i> .
		Family CARANGIDÆ.
		Sub-Family <i>Vomerinæ</i> .
	1769	<i>Vomer setipinnis</i> (Mitch.), Ayres. <i>Horse-fish</i> ; <i>Jorobado</i> .
	1894	<i>Selene vomer</i> (?) (Lac.), Lütken. <i>Jorobado Horseman</i> .
	1715	<i>Selene capillaris</i> , Mitch. <i>Moon-fish</i> .
		Sub-Family <i>Caranginæ</i> .
	1801	<i>Decapterus punctatus</i> (Ag.), Gill. <i>Dotted Scad</i> ; <i>Round Robin</i> .
	1888	<i>Trachurops crumenophthalmus</i> (Bloch.), Gill. <i>Big-eyed Scad</i> ; <i>Chicharro</i> ; <i>Goggler</i> ; <i>Goggle-eyed Jack</i> .

Cran.	Skel.	
	1825	<i>Paratractus pisqestus</i> (Cuv. and Val.), Gill. <i>Yellow Crevallè; Jack; Buffalo Jack.</i>
1888	1822 1828	<i>Carangus hippos</i> (Linn.), Gill. <i>Horse Crevallè; Jiguagua.</i>
	1768	<i>Blepharichthys crinitus</i> (Ackerly), Gill. <i>Thread-fish; Taylor.</i>
		Sub-Family <i>Trachynotinae</i> .
	1716	<i>Trachynotus ovatus</i> (Linn.), Günth. <i>Short Pompano.</i>
	1211 1761 1820	<i>Trachynotus carolinus</i> (Linn.), Gill. <i>Pompano; Crevallè.</i>
	1811	<i>Halatractus zonatus</i> (Mitch.), Gill. <i>Rudder-fish; Bonito.</i>
		Family CORYPHAENIDÆ.
	1881	<i>Coryphæna sueuri</i> , Cuv. and Val. <i>Lesueur's Dolphin.</i>
		Family STROMATEIDÆ.
		Sub-Family <i>Centrolophinae</i> .
	1829	<i>Palinurichthys perciformis</i> (Mitch.), Gill. <i>Black Rudder-fish.</i>
		Sub-Family <i>Stromateinae</i> .
	1774 1831	<i>Poronotus triacanthus</i> (Peck), Gill. <i>Harvest-fish; Butter-fish.</i>
	1778	<i>Peprilus gardenii</i> (Bloch., Schneider), Gill.
		Family LATILIDÆ.
	2432	<i>Caulolatilus anomalus</i> , Gill.
		Family BERYCIDÆ.
		Sub-Family <i>Holocentrinae</i> .
1750	1746 1749	<i>Holocentrum sogo</i> , Bloch. <i>Squirrel-fish.</i>
		Family SCIAENIDÆ.
1190	1146	<i>Cynoscion carolinensis</i> (Cuv. and Val.), Gill. <i>Spotted Sea Trout.</i>
556	105 110	<i>Cynoscion regalis</i> (Bloch.), Gill. <i>Spot-tail; Weakfish; Gray Trout.</i>
	2450	<i>Roncador stearnsii</i> , J. and G.
		Sub-Family <i>Haplodontinae</i> .
	1579 1796	<i>Haplodontus grunniens</i> , Raf. <i>Lake Sheepshead; White Perch; Grunter; Drum.</i>
120	1096	<i>Pogonias chromis</i> , Lacep. <i>Drum; Oyster Drum.</i>

Cran.	Skel.	
878 886	877 885	<i>Liostomus xanthurus</i> , Lacep. <i>Yellow Tail</i> ; <i>Spot</i> .
887	2332	<i>Liostomus obliquus</i> (Mitch.), De Kay. <i>LaFayette</i> ; <i>Goody</i> ; <i>Chub</i> ; <i>Roach</i> .
Sub-Family <i>Scianinæ</i> .		
559	142	<i>Sciænops ocellatus</i> (Linn.), Gill. <i>Red Bass</i> ; <i>Bass</i> ; <i>Sea Bass</i> ; <i>Redfish</i> ; <i>Ocellated Drum</i> .
	1855	<i>Bairdella punctata</i> (Linn.), Gill. <i>Silver Perch</i> .
1149 1151	1145 1154 1782	<i>Menticurrua nebulosus</i> (Mitch.), Gill. <i>Kingfish</i> ; <i>Whiting</i> ; <i>Hake</i> ; <i>Barb</i> .
2434		<i>Menticurrua undulatus</i> (Grd.), Gill.
	1846	<i>Menticurrua littoralis</i> (Hall), Gill. <i>Shore Whiting</i> .
1147	1144 2349	<i>Micropogon undulatus</i> (Linn.), Cuv. and Val. <i>Croaker</i> .
Family GERRIDÆ.		
	1804	<i>Eucinostomus lefroyi</i> , Goode. <i>Long-boned Shad</i> .
Family PIMELEPTERIDÆ.		
1770	1745	<i>Pimelepterus bosci</i> , Lac. <i>Chopabanca</i> ; <i>Bream</i> .
Family SPARIDÆ.		
Sub-Family <i>Sparinæ</i> .		
	1892	<i>Lagodon rhomboides</i> (Linn.), Holb. <i>Sargo</i> .
574	61 1781	<i>Archosargus probatocephalus</i> (Walb.), Gill. <i>Sheephead</i> .
	2341	<i>Sargus holbrookii</i> , Bean.
1202 1203 1204	1201 1212 1776	<i>Stenotomus argyrops</i> (Linn.), Gill. <i>Scup</i> ; <i>Porgy</i> .
Family PRISTOPOMATIDÆ.		
	2361	<i>Orthopristis fulvomaculatus</i> (Mitch.), Gill.
	1843	<i>Hæmulon xanthopteron</i> , Cuv. and Val. <i>Grunt</i> .
	1891	<i>Hæmulon flaviguttatus</i> , Gill. <i>Yellow-spotted Grunt</i> .
1871		<i>Hæmulon</i> , Sp.
	2352	<i>Rhomboplites aurorubens</i> (Cuv. and Val.), Gill. <i>Bastard Snapper</i> .

Cran.	Skel.	
		Sub-Family <i>Lutjaninae</i> .
	1798	<i>Lutjanus caxis</i> (Bloch and Schneider), Gill. <i>Gray Snapper</i> .
	2165	<i>Lutjanus blackfordi</i> , Goode and Bean. <i>Blackford's Red Snapper</i> .
		FAMILY SERRANIDÆ.
		Sub-Family <i>Serraninae</i> .
	1792	<i>Epinephelus striatus</i> (Bloch), Gill. <i>Hamlet; Grouper</i> .
	1806	<i>Epinephelus guttatus</i> (Gmelin), Goode. <i>Hind</i> .
	2354	<i>Epinephelus morio</i> (Cuv.), Gill. <i>Red Grouper</i> .
575	11	<i>Centopristis atrarius</i> Linn. <i>Black Sea Bass</i> .
1835	1734	
		FAMILY ETHEOSTOMIDÆ.
	2415	<i>Diplesium blennoides</i> (Raf.), Jordan. <i>Green-sided Darter</i> .
		FAMILY PERCIDÆ.
568	24	<i>Perca americana</i> , Schranck. <i>Yellow Perch</i> .
	1833	
	1884	
2355	148	<i>Stizostethium vitreum</i> (Mitch.), Jor. and Copeland. <i>Pike</i> .
	1875	<i>Perch</i> .
1741	2333	<i>Stizostethium griseum</i> (De Kay), Milner. <i>Sauger; Gray Pike; Perch</i> .
	170	<i>Percina caprodes</i> (Raf.), Girard. <i>Hog-fish</i> .
	74	<i>Boleichthys fusiformis</i> (Girard), Jor. <i>Darter</i> .
		FAMILY LABRACIDÆ.
558	23	<i>Morone americana</i> (Gmelin), Gill. <i>White Perch</i> .
	1870	<i>Paralabrax clathratus</i> , Grd.
43	3	<i>Roccus lineatus</i> (Bl., Schn.), Gill. <i>Striped Bass; Rockfish</i> .
	1872	<i>Roccus chrysops</i> (Raf.), Gill. <i>White Bass; Star-fish; Lake Bass</i> .
		FAMILY CENTRARCHIDÆ.
805	5	<i>Lepomis auritus</i> (Linn.), Gill. <i>Long-eared Sunfish</i> .
	1886	
	1883	<i>Lepomis pallidus</i> (Mitch.), Gill and Jord. <i>Pale Sunfish</i> .
	1893	<i>Lepomis apiatus</i> , Cope. <i>Fly-specked Sunfish</i> .
	1854	<i>Lepomis sanguinolentus</i> (Ag.), Jordan. <i>Blue and Orange Sunfish; Sun Perch</i> .

Cran.	Skel.	
1747	815 1735	<i>Eupomotis aureus</i> (Walb.), Gill and Jordan. <i>Common Sunfish Pumpkin-seed; Tobacco-box.</i>
	1889	<i>Eupomotis spinosus</i> (Holb.), Gill. <i>Southern Sunfish.</i>
1150	817	<i>Enneacanthus obesus</i> (Grd.), Gill. <i>Mottled Sunfish.</i>
	1890	<i>Chaenobrittus viridis</i> (Cuvr. and Val.), Jordan. <i>Green Sunfish.</i>
	2330	<i>Telipomus cyanellus</i> , Raf. <i>Blue Spotted Sunfish.</i>
	2413	<i>Centrarchus irrideus</i> , Cuv. and Val. <i>Shining Bass.</i>
	823 1779	<i>Pomoxys nigromaculatus</i> (Le S.), Grd. <i>Grass Bass; Calico Bass; Bar-fish; Strawberry Bass; Bitter Head.</i>
	2335	<i>Pomoxys annularis</i> , Raf. <i>Crappie; Bachelor.</i>
1799	147 1789	<i>Microptereus dolamieu</i> (Lac.), Gill. <i>Small-mouthed Black Bass; Black Bass.</i>
1787	1142	<i>Micropterus salmoides</i> (Lac.), Vaill and Boc. <i>Oswego Bass; Large-mouthed Black Bass.</i>
	1877	<i>Ambloplites rupestris</i> (Raf.), Gill. <i>Rock Bass; Goggle-eye; Red-eye.</i>
		Family EPHIPPIIDÆ.
850	68	<i>Chætodipterus gigas.</i>
1876		<i>Chætodipterus quadratus</i> (Gm.), Gill. <i>Moon-fish.</i>
		Family POMATOMIDÆ.
67 555 1158	63	<i>Pomatomus saltatrix</i> (Linn.), Gill. <i>Mackerel; Skipjack; Horse Mackerel; Green Fish; Taylor; Snapping Mackerel.</i>
		Family AMMODYTIDÆ.
	1865	<i>Ammodytes americanus</i> , De Kay. <i>Sandlance; Sand-eel.</i>
		Family ECHEINEIDIDÆ.
2369	71	<i>Leptecheneis naucratus</i> (Zuiew.), Gill. <i>Sucker.</i>
		Family SPHYRÆNIDÆ.
	1815	<i>Sphyrna borealis</i> , De Kay. <i>Northern Burricuda.</i>
		SUB-ORDER PERSESOCES.
		Family MUGILIDÆ.
	1887	<i>Mugil</i> , Sp.
1880		<i>Mugil cephalotus</i> (?)
		Family ATHERINIDÆ.
882	1767	<i>Chirostoma notata</i> (Mitch.), Gill. <i>Silversides.</i>

Cran.

Skel.

SUB-ORDER **SYNENTOGNATHI.**Family **BELONIDÆ.**

- 562 55 *Belone longirostris* (Mitch.), Gill. *Silver Gar; Bell-fish.*
 2350 *Belone latimanus*, Poey. *Gar-fish.*

Family **SCOMBERESOCIDÆ.**

- 1054 *Exocætus exiliens*, Gmelin. *Flying-fish.*
 2451 *Exocætus californicus*, Cooper.
 1793 *Hemirhamphus pleii*, Val. *Red-billed Gar.*
 1840 *Scomberesox scutellatus*, Le S. *Skipper; Saury; Skip-jack.*

SUB-ORDER **HEMIBRANCHI.**Family **GASTEROSTEIDÆ.**Sub-Family *Gasterosteinae.*

- 1850 *Gasterosteus biaculeatus*, Shaw. *Two-spined Stickleback.*
 2325 *Gasterosteus pungitius*, Linn.
 1867 *Apeltes quadracus* (Mitch.), Brei. *Four-spined Stickleback.*

ORDER **Haplomi.**Family **ESOCIDÆ.**

- 1817 *Esox nobilior*, Thompson. *Muskallunge; Great Pike.*
 609 146 *Esox lucius*, Linn. *Lake Pike; Mascalunge.*
 1809
 1790 *Esox americanus*, Lac. *Banded Pickerel; Trout Pickerel.*
 557 16 *Esox reticulatus*, Lesueur. *Pickerel.*

Family **CYPRINODONTIDÆ.**

- 1123 880 *Fundulus heteroclitus* (Linn.), Gill. *Mummahog.*
 103 *Fundulus*, Sp. *Baird's Stone-tugger.*
 1763 *Fundulus pisculentus* (Mitch.), Val. *Mummahog; Minnow.*
 1764
 881 *Hydrargyra majalis* (Walb.), Val. *Mummahog.*
 1766 1765

Family **UMBRIDÆ.**

- 1848 *Melanura limi* (Kirt.), Ag. *Mud-minnow; Mud-dace; Dog-fish.*

Cran.	Skel.	
		ORDER Isospondyli.
		Family SYNOBOSTIDÆ.
1847		<i>Synodus fœtens</i> (Linn.), Gill. <i>Snake-fish.</i>
		Family MICROSTOMIDÆ.
	1064	<i>Osmerus mordax</i> (Mitch.), Gill. <i>Smelt.</i>
	2321	<i>Osmerus pacificus.</i> <i>Pacific Smelt.</i>
		Family SALMONIDÆ.
2362		<i>Oncorhynchus quinnat</i> (Rich.), Günther. <i>California Co-</i> <i>lumbian or Quinnat Salmon.</i>
	2421	<i>Oncorhynchus kisutch</i> (Walb.), Jordan and Gill. <i>Salmon.</i>
	2058	<i>Salmo spilurus</i> , Cope.
	2367	<i>Salmo sebago</i> , Girard. <i>Land-locked Salmon.</i>
	1885	<i>Salvelinus ognassa</i> (Grd.), Gill and Jor. <i>Blue-backed Trout.</i>
571	58 1845	<i>Salvelinus fontinalis</i> (Mitch.), Gill and Jor. <i>Brook Trout.</i>
1288	144	<i>Cristivomer namaycush</i> (Walb.), Gill and Jor. <i>Lake Trout.</i>
	1578	<i>Thymallus tricolor</i> , Cope. <i>Grayling.</i>
	131	<i>Coregonus clupeiformis</i> (Mitch.), Milner. <i>White-fish.</i>
		Family ALEPIDOSAURIDÆ.
2364		<i>Alepidosaurus ferox</i> , Lowe. <i>Lancet-fish.</i>
		Family ALBULIDÆ.
	1780 2365	<i>Albula conrhynchus</i> , Bl. and Schn. <i>Lady-fish.</i>
		Family ELOPIDÆ.
	1802	<i>Elops saurus</i> , Linn. <i>Big-eyed Herring.</i>
	1140	<i>Megalops thrissoides</i> (Bl., Sch.), Günther. <i>Jew-fish; Tarpum.</i>
		Family DUSSUMIERIDÆ.
1866		<i>Etrumeus teres</i> (De Kay), Brevoort. <i>Round Herring.</i>
		Family HYODONTIDÆ.
	1797	<i>Hyodon tergisus</i> , Le S. <i>Moon-eye; Silver Bass; Toothed Her-</i> <i>ring.</i>
		Family CLUPEIDÆ.
	1791	<i>Brevoortia tyrannus</i> (Lat.), Goode. <i>Menhaden; Mossbunker;</i> <i>Hardhead; Bonnyfish; Bunker; White-fish; Fatback; Yel-</i> <i>low-tail; Brig-fish.</i>

Cran.	Skel.	
	2358	<i>Brevoortia patronus</i> , Goode. <i>Alewife</i> .
570	36	<i>Alosa sapidissima</i> (Wilson), Storer. <i>Shad</i> .
1879		<i>Opisthronema thrissa</i> , Gill. <i>Thread Herring</i> ; <i>Menhaden</i> .
1070	1078	<i>Pomolobus pseudoharengus</i> (Wilson), Gill. <i>Herring</i> ; <i>Alewife</i> .
1071		<i>Sawbelly</i> ; <i>Spring Herring</i> ; <i>Blueback</i> .
1072		
1073		
	1786	<i>Pomolobus mediocris</i> (Mitch.), Gill. <i>Tailor Herring</i> ; <i>Fall Shad</i> .
	1807	<i>Clupea harengus</i> , Linn. <i>English Herring</i> .
		Family DOROSOMATIDÆ.
567	108	<i>Dorosoma cepedianum</i> (Lac.), Gill. <i>Toothed Herring</i> .
		Family ENGRAULIDÆ.
	1857	<i>Engraulis</i> , Sp.. <i>Anchor</i> .
		ORDER Eventognathi.
		Family CATOSTOMIDÆ.
572	57 1844	<i>Hypentelium nigricans</i> (Le S.), Jord. <i>Hog Sucker</i> ; <i>Stoneroller</i> .
662	659	<i>Catostomus commersonii</i> (Lac.), Jord. <i>Chub-sucker</i> .
663	1731	
664	2346	
665		
1856		<i>Catostomus longirostrum</i> , Le S. <i>Long-nosed Sucker</i> .
	1805	<i>Erimyzon sucetta</i> (Lac.), Jord. <i>Creek-fish</i> ; <i>Chub-sucker</i> ;
807	806	<i>Yellow Mullet</i> ; <i>Horned Sucker</i> .
	66	<i>Carpiodes</i> , Sp.
		Family CYPRINIDÆ.
599	28	<i>Carassius auratus</i> , Bleeker. <i>Goldfish</i> .
	1742	<i>Cyprinus carpio</i> (Linn.). <i>Carp</i> .
	189	<i>Semotilus corporalis</i> (Mitch.), Putnam. <i>Common Chub</i> ;
	1853	<i>Horned Dace</i> ; <i>Creek Chub</i> .
573	585	<i>Semotilus bullaris</i> (Raf.), Jordan. <i>Fall-fish</i> ; <i>Chub</i> ; <i>Roach</i> ;
866	1874	<i>Swamp Carp</i> .
560	75	<i>Hybognathus regius</i> , Girard. <i>Gudgeon</i> ; <i>River Smelt</i> .
864	168	<i>Luxilus cornutus</i> (Mitch.), Jordan. <i>Shiner</i> ; <i>Redfin</i> ; <i>Rough-</i>
	1851	<i>head</i> ; <i>Roach</i> ; <i>Rot-gut</i> .

Cran.	Skel.	
	73	<i>Luxilus analostanus</i> , Grd. <i>Gold-striped Dace; Silverside.</i>
	2338	<i>Idus melanotus</i> , Hessel. <i>The Ide.</i>
	879 1849	<i>Hybopsis hudsonius</i> (Clinton), Putnam. <i>Spawen-eater.</i>
588	592	<i>Ceraticthys biguttatus</i> (Kirkland), Grd. <i>Horned Chub; Horny-headed Jerker; River Chub.</i>
	1852 1897	<i>Rhinichthys cataractæ</i> (Val.), Jordan. <i>Long-nosed Dace; Niagara Gudgeon.</i>
	599 1724 1810	<i>Notemigonus chrysoleucus</i> (Mitch.), Jordan. <i>Shiner; Gobler Shiner.</i>
	587	<i>Esoglossum masillingua</i> (Lesueur). <i>Tongue-jaw; Day Chub; Cutlips; Nigger Chub.</i>

ORDER **Nimatognathi.**Family **SILURIDÆ.**

	1882	<i>Ictalurus punctatus</i> (Raf.), Jordan. <i>Channel Cat; Blue Cat; White Cat.</i>
	1727 1728 2336	<i>Amiurus albidus</i> (Le S.), Gill. <i>Fork-tailed Catfish; Channel Cat of the Potomac.</i>
	1784	<i>Amiurus lophius</i> (Grd.), Gill. <i>Big-mouthed Catfish.</i>
	1836	<i>Amiurus nebulosus</i> , Le S.
563 564	21	<i>Amiurus nigricans</i> (Le S.), Gill. <i>Lake Catfish; Black Catfish; Great Mississippi Cat.</i>
	2322	<i>Amiurus melas</i> (Raf.), Jord. and Cope. <i>Small Black Catfish.</i>
	2339	<i>Amiurus natalis</i> , var. <i>lividus</i> (Le S.), Raf. <i>Catfish; Yellow Cat.</i>
	1143	<i>Amiurus acutus</i> (L.), Gill. <i>Black Catfish; Horned Pout; Bullhead; Minister.</i>
	1860	<i>Noturus insignis</i> (Rich.), Gill and Jord. <i>Margined Stone Cat.</i>
	2326	<i>Noturus exilis</i> , Nelson. <i>Slender Stone Cat.</i>
	2324	<i>Noturus gyrinus</i> (Mitch.), Raf. <i>Tadpole Stone Cat.</i>
	2351	<i>Arius milberti</i> (Val.), Gill. <i>Sea²Catfish.</i>
	51	<i>Rhumdia brachypterus</i> (Cope), Gill. <i>Mexican Catfish.</i>

Cran.	Skel.	
ORDER Apodes.		
SUB-ORDER ENCHELYCEPHALI.		
Family CONGRIDÆ.		
Sub-Family <i>Congrinæ</i> .		
	2344	<i>Conger oceanica</i> (Mitch.), Gill. <i>Conger Eel</i> .
Family ANGUILLIDÆ.		
1094	25	<i>Anguilla vulgaris</i> , Fleming. <i>Common Eel</i> .
1095	1105	
2244	2210	<i>Muraenopsis tridactylus</i> , Cuv.
Family MURÆNIDÆ.		
	2374	<i>Muraena sanctæhelenæ</i> , Günther.
Family SYNAPHOBANCHIDÆ.		
	2328	<i>Synaphobranchus pinnatus</i> , Günther.
Family SIMENCHELYIDÆ.		
	2327	<i>Simenchelys parasiticus</i> , Gill. <i>Prig-nosed Eel</i> .
SUB-CLASS Ganoidei.		
SUPER-ORDER HYOGANOIDEI.		
ORDER Cycloganoidei.		
Family AMIIDÆ.		
	1803	<i>Amia calva</i> , Linn. <i>Bow-fish; Dog-fish; Mud-fish</i> .
ORDER Rhomboganoidei.		
Family LEPIDOSTEIDÆ.		
565	62	<i>Lepidosteus osseus</i> (Lac.), Ag. <i>Common Garfish</i> .
566	1851	
	2504	
	1827	<i>Litholepis platystomus</i> (Lac.), Jordan. <i>Short-nosed Gar Pike</i> .
SUPER-ORDER BRANCHIOGANOIDEI.		
ORDER Crossopterygia.		
Family POLYPTERIDÆ.		
	2505	<i>Polypterus bichir</i> , Auct.
	2528	
SUPER-ORDER DIPNOI.		
ORDER Sirenoidei.		
Family CERATODONTIDÆ.		
	2480	<i>Ceratodus forsteri</i> .

Cmn.	Skel.	
<p style="text-align: center;">SUPER-ORDER CHONDROGANOIDÆ. ORDER Chondrostei. FAMILY ACIPENSERIDÆ.</p>		
1152 1854	961	<i>Acipenser oxyrhynchus</i> , Mitch. <i>Sharp-nosed Sturgeon.</i>
	2342	<i>Acipenser sturio</i> , Linn. <i>Sturgeon.</i>
	1819	<i>Scaphirhynchops platyrhynchus</i> (Raf.), Cope. <i>Shovel-nosed Sturgeon.</i>
<p style="text-align: center;">ORDER Selachostomi. FAMILY POLYODONITIDÆ: Spoon-billed Cuts.</p>		
1808	1577	<i>Polyodon folium</i> , Lac.
<p style="text-align: center;">SUB-CLASS Elasmobranchii. SUPER-ORDER HOLOCEPHALI. FAMILY CHIMÆRIDÆ.</p>		
2377		<i>Chimæra plumbea</i> , Gill. <i>Brown Chimera.</i>
<p style="text-align: center;">SUPER-ORDER PLAGIOSTOMI. ORDER Raie. SUB-ORDER MASTICURA. FAMILY TRYGNIDÆ.</p>		
1165	1174 1588	<i>Trygon centrura</i> (Mitch.), Gill. <i>Sting Ray; Stingaree.</i>
<p style="text-align: center;">SUB-ORDER PACHYURA. FAMILY RAIIDÆ.</p>		
	874	<i>Raia undulata</i> , Lacep. <i>Whip-tailed Ray.</i>
	1159	<i>Raia laevis</i> , Mitch. <i>Sharp-nosed Skate.</i>
2383		<i>Raia erinacea</i> , Mitch. <i>Clear-nosed Skate.</i>
2384	2379	<i>Raia radiata</i> . <i>Donovan Skate.</i>
	2449	<i>Raia stellulata</i> , Jor. and Gill.
<p style="text-align: center;">ORDER Squali. FAMILY SPINACIDÆ.</p>		
	1155 1826	<i>Squalus americanus</i> (Storer), Gill. <i>Dog-fish; Dog Shark.</i>
	2366	<i>Centrophorus cœlolepis</i> , Günther.

Cran.	Skel.	
Family GALEORHINIDÆ		
673	1878	<i>Eulamia milbertii</i> (Müll. and Henle), Gill. <i>Blue Shark.</i>
1172 1262		<i>Eulamia obscurus</i> (Lesueur), Gill. <i>Dusty Shark.</i>
1052		<i>Galeocerdo tigrinus</i> , Müll. and Henle. <i>Tiger Shark.</i>
1167	1818	<i>Mustela canis</i> (Mitch.), De Kay. <i>Smooth Dog-fish.</i>
Family SPHYRINIDÆ		
2343		<i>Sphyrna zygaena</i> (Linn.), Müll. and Henle. <i>Hammer-head Shark; Cornida; Magnosa.</i>
Family CARCHARIDÆ.		
1171	1166	<i>Eugomphodus littoralis</i> , Gill. <i>Sand Shark; Shovel-nose.</i>
Family HETERODONTIDÆ.		
2506		<i>Cestracion philippi.</i>
2436		<i>Heterodontus francisci</i> (Grd.), Gill.

MISCELLANEOUS SPECIMENS OF AND FROM FISHES.

- No.
104 *Entozoa* found in Baird's stone-tugger (*Fundulus bairdii*).
132 *Entozoa* found in gizzard-fish (*Coregonus clupeiformis*).
145 Intestinal canal of lake-trout (*Christivomer namaycush*), exhibiting large development of tubular glands.
630 Specimen of gold-fish (*Carassius auratus*) with double tail and one sternal rib connected with first rib of right side.
863 Cranium of yellow perch (*Perca americana*), with superior maxilla in rudimentary condition.
875 Heart of whip-tailed ray (*Raia undulata*).
1015 Superior maxilla of saw-fish (*Pristis antiquorum*).
1035 *Entozoa* found in stomach of Jew-fish (*Stereolepis*).
1036 *Entozoa* from a fish.
1063 Superior maxilla of saw-fish (*Pristis antiquorum*).
1099 *Entozoa* found in caudal muscles of drum-fish (*Pogonias chromis*).
1093 Alimentary canal of Conger eel (*Conger oceanica*).
1097 Heart of drum-fish (*Pogonias chromis*).
1098 Cæcal (vermiform) appendages of drum-fish (*Pogonias chromis*).
1173 Heart of dusky shark (*Eulamia obscurus*).
1269 Jaws of blue shark (*Eulamia milbertii*).
1732 Palate bone of drum-fish (*Pogonias chromis*).
2191 Maxillæ of man-eating shark (*Squalus carcharias*).
2236 Eggs of sharp-nosed skate (*Raia lævis*).
2382 Embryo of shark six and a half inches long.
2447 Portion of superior maxilla of drum-fish (*Pogonias chromis*).

